

# Standard Bidding Document - E-tender



## SECURITY PAPER MILL, NARMADAPURAM- 461005 (M.P), INDIA

(A Unit of Security Printing and Minting Corporation of India Limited)  
(Wholly owned by Government of India)

(Miniratna Category-I CPSE & ISO 9001:2015, 14001:2015, 45001:2018, 50001:2018 & IEC17025:2017 Certified)  
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CIN: U22213DL2006GOI144763, GSTIN: 23AAJCS6111J3ZE

Ph.No:91-7574-255259, Fax No: 07574-255170



PR Number	PR Date	Indenter	Department
16000831	07.06.2022	pm5elect	PM5ELEC

Not Transferable

### Security Classification: NON-SECURITY

## DEVELOPMENT E-TENDER DOCUMENT FOR DEVELOPMENT OF COOLING FANS OF COMPRESSORS AND CHILLERS

Tender Number: 6000017746/EL/PM5/828, Dated:13.09.2022

This Tender Document Contains \_\_60\_\_ Pages.

Tender Documents is issued to:

M/s..... .....
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Details of Contact person in SPMCIL regarding this tender:

Name, Designation: Vikas Kumar, Manager (Material)

Address: Security Paper Mill, Narmadapuram

Phone, Fax, email: 07574-286842

Email: [kumar.vikas@spmCIL.com](mailto:kumar.vikas@spmCIL.com)

## Section1: Notice Inviting Tender (NIT)

6000017746 /EL/PM5/828

13.09.2022

(SPMCIL's Tender SI No.)

(Date)

1. Sealed tenders are invited from eligible and qualified tenderers for supply of following goods & services:

Sch d. No.	Brief Description of Goods/services	Quantity (with unit)	Earnest Money (In Rupee)	Remarks
1	Cooling fan motor SPEL019939	2.000 EA	0.00INR	
2	A4D500AM0905 690/480W, 1350/1100N SPEL026287	3.000 EA		
3	M4Q045-CA03- 51/A60,36/10Watt,1300N SPEL026288	2.000 EA		
4	Q Motor Impeller part no- 73813-2-3634 SPEL026249	2.000 EA		
5	PG3W WATER COOLED WELD GUN SPEL023655	1.000 EA		
6	PUSHER FAN DIA 400-Pt. No. B008107010002 SPME049267	2.000 EA		
7	AIR DRYER FAN MOTOR DIA 300MM FOR ELGI SPEL027799	2.000 EA		
8	COOLING FAN DIA 400M FOR ELGI SPEL027798	2.000 EA		
Type of Tender (Two Bid/ PQB/ EOI/ RC/ Development/ Indigenization/ Disposal of Scrap/ Security Item etc.)			TWO-BID National Competetive Bid	

Dates of sale of tender documents:	As per MSTC E-PROCUREMENT PORTAL.
Place of sale of tender documents	MSTC E-PROCUREMENT PORTAL
Closing date and time for receipt of tenders	As per MSTC E-PROCUREMENT PORTAL
Place of receipt of tenders	MSTC E-PROCUREMENT PORTAL.
Time and date of opening of tenders	As per MSTC E-PROCUREMENT PORTAL.
Place of opening of tenders	MSTC E-PROCUREMENT PORTAL
Nominated Person/ Designation to Receive Bulky Tenders (Clause 21.21.1 of GIT)	VIKAS KUMAR Manager(Material)

2. Eligibility to participate as per Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Ministry of Finance, Department of Expenditure, Public Procurement Division's Orders (Public Procurement 1, 2 and 3) F.No.6/18/2019-PPD dated 23rd/ 24th July 2020 (or any further amendments thereof) regarding eligibility of bidders from neighboring countries shall apply to this tender.

3. Please note that SPMCIL reserves its right to grant Purchase preferences in accordance with Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018 (as amended/ revised).

4. Interested tenderers may obtain further information about this requirement from <https://www.mstcecommerce.com/eproc/>.

5. Tenderer may also download the tender documents from the web site <https://spmnamadapuram.spmcil.com> or <https://www.mstcecommerce.com/eproc> and submit its tender by utilizing MSTC E-procurement Portal.

6. Tenderers shall ensure that their tenders, duly sealed and signed, complete in all respects as per instructions contained in the Tender Documents, are to be submitted on MSTC Govt. e-procurement portal and the website is [www.mstcecommerce.com/eproc/](http://www.mstcecommerce.com/eproc/).

7. In the event of any of the above-mentioned dates being declared as a holiday/ closed day for the purchase organization, the tenders will be sold/ received/ opened on the next working day at the appointed time.

8. The tender documents are not transferable.

9. The bidder, their affiliates, or subsidiaries # including subcontractors or suppliers for any part of the contract # should not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations. A declaration to this effect shall be submitted by the bidder in the Tender Form (Section X).

10. Undersigned confirms that the required goods mentioned above are not available on GeM as per #GeM - Availability Report and Past Transaction Summary# (GeM - AR&PTS). This unique ID is GEM/GARPTS/30062022/UXRMGX2VRF8L.

11. Performance Security Deposit : Not Applicable.

12. Procurement Preference for MSE

(i) From time to time, the Government of India (GoI) lays down procurement policies to help inclusive national economic growth by providing long-term support to small and medium enterprises and disadvantaged sections of society and to address environmental concerns. The Procurement Preference Policy for Micro and Small Enterprises has been notified by GoI in exercise of the powers conferred in Section 11 of the Micro, Small and Medium Enterprises Development (MSMED) Act, 2006.

(ii) Micro and Small Enterprises (MSE) must, along with their offer, provide proof of their being registered as MSE indicating the terminal validity date of their registration)for the item tendered, with any agency mentioned in the notification of the Ministry of Micro, Small and Medium Enterprises (MSME),indicated below:

- (a) District Industries Centres.
- (d) Khadi and Village Industries Commission.
- (e) Khadi and Village Industries Board.
- (f) Coir Board.
- (g) National Small Industries Corporation.
- (h) Directorate of Handicraft and Handloom; and
- (i) Any other body specified by the Ministry of MSME.

(iii) For ease of registration of Micro and Small Enterprises (MSEs), Ministry of MSME has started Udyog Aadhar Memorandum which is an online registration system (free of cost) w.e.f. 18th September 2015 and all Micro & Small Enterprises (MSEs) who are having Udyog Aadhar Memorandum should also be provided all the benefits available for MSEs under the Public Procurement Policy for Micro and Small Enterprises (MSEs), Order 2012.

(iv) The MSEs are provided tender documents free of cost and are exempted from payment of earnest money, Subject to furnishing of relevant valid certificate for claiming exemption.

(v) As per MSME Act, 2006 and Government of India's stimulus package announced on 13/02/2020 MSME payments have to be released within 45 days by Government and PSUs. As per the MSME Act, delays may attract punitive interest. Under Public Procurement Policy for MSEs, a minimum 25 per cent share out of the total procurement by Central Government Ministries/ Departments/ Public Sector Undertakings are to be made from MSEs. To meet this target, PSUs are required to conduct special Vendor Development Programmes/ Buyer-Seller Meets for SCs/ STs entrepreneurs.

(vi) If a MSE bidder quotes a price within the band of the lowest (L1) +15 per cent in a situation where the L1 price is quoted by someone other than an MSE, the MSE bidders are eligible for being awarded 25 per cent of the total tendered value if they agree to match the L1 price. In case of more than one such eligible MSE, the 25 per cent quantity is to be distributed proportionately among these bidders. Within this, a purchase preference of 4 per cent is reserved for MSEs owned by Scheduled Caste (SC)/ Scheduled Tribe (ST) entrepreneurs and 3 per cent is reserved for procurement from MSEs owned by women (if they participate in the tender process and match the L1 price). Provided that, in event of failure of such SC/ ST or Women MSE to participate in tender process or meet tender requirements and L1 price, 4 per cent sub-target shall be met from other MSE. MSEs would be treated as owned by SC/ ST or women entrepreneurs:

(a) In case of proprietary MSE, proprietor(s) shall be SC /ST or women

(b) In case of partnership MSE, the SC/ ST or women partners shall be holding at least 51% shares in the unit (c) In case of Private Limited Companies, at least 51% share shall be held by SC/ ST or women promoters.

In the opinion of Ministry of MSME, in case of tender item is non-split-able or non-dividable, etc. MSE quoting price within price band L1+15% may be awarded for full/ complete supply of total tendered value to MSE, considering spirit of policy for enhancing the Govt. procurement from MSE. This Policy is meant for procurement of only goods produced and services rendered by MSEs and not for any trading activities by them. An MSE Unit will not get any purchase preference over another MSE Unit.



Tender Number:6000017746

Encl:

1. Check list (Annexure-I)
2. Declaration (Annexure-II)
3. Declaration (Annexure-III)
4. Declaration (Annexure-IV)
5. Drawings (Annexure-V)

Yours faithfully,

(Vikas Kumar)  
Manager (Material)  
For Chief General Manager  
E-mail: kumar.vikas@spmcl.com  
PHONE :- (07574) 286842 & 286587

CORRESPONDING ADDRESS

-----  
THE CHIEF GENERAL MANAGER  
SECURITY PAPER MILL  
NARMADAPURAM-461 005 (M.P.)  
Website: <http://spmnmarmadapuram.spmcl.com>  
FAX :- (07574)-255170

SIGNATURE OF BIDDER WITH NAME,  
DESIGNATION & SEAL



Tender Number:6000017746

## **Section II: General Instructions to Tenderers (GIT)**

### **Part 1: General Instructions Applicable to all type of Tenderers**

Part I: General Instructions Applicable to all Types of Tenders

Kindly refer <https://spmciil.com/uploaddocument/GIT/new.pdf> for further details (GIT contains 61 pages)

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Tender Number:6000017746

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## **Section II: General Instructions to Tenderers (GIT)**

### **Part II: Additional General Instructions Applicable to Specific type of Tenderers**

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Part I: General Instructions Applicable to all Types of Tenders

Kindly refer <https://spmciil.com/uploaddocument/GIT/new.pdf> for further details (GIT contains 61 pages)

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### Section III: Specific Instructions to Tenderers (SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/ substitute/ supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

(Clauses of GIT listed below include a possibility for variation in their provisions through SIT. There could be other clauses in SIT as deemed fit.)

Sr No	GIT Clause No.	Topic	SIT Provision
01	3	Eligible Tenderers	Applicable
02	3.4	Eligible Goods and Services (Origin of Goods)	Applicable
03	6.1	The tender documents includes:	Applicable
04	8	Pre-bid Conference	Not Applicable
05	9	Time Limit for receiving request for clarification of Tender Documents	A Tenderer requiring any clarification or elucidation on any issue of the tender documents may take up the same with SPMH in writing or by fax/e-mail/telex. SPMH will respond in writing to such request provided the same is received than fourteen days (unless otherwise specified in the SIT) prior to the prescribed date of submission of tender. Copies of the query and clarification shall be sent to all prospective bidders who have received the bidding document.
06	10.1	The Technical bid to be submitted by Tenderer shall contain the	following documents, duly filled in, as required: Applicable
07	11.2	Tender Currency	Supplier is requested to quote price within 2 Decimal place. Quotation with price quote beyond 2 decimal place is ignored.
08	12.1	Tender Prices	Applicable
09	12.2,33,36.1	Schedule wise evaluation	Applicable
10	12.6	GST details	Applicable
11	14	PVC Clause & Formula	Not Applicable
12	14.4 to 14.7	Exchange Rate Variation (ERV)	Not applicable
13	16.2 a) to c)	Documents Establishing Tenderer's Eligibility and Qualifications	Not applicable
14	18.4, 18.5	Earnest Money Deposit (EMD)	Not Applicable
15	19	Tender Validity	120 days from opening date of quotation.
16	20.4	Number of Copies of Tenders to be submitted	One copy in original
17	20.8	Two Bid System	Applicable
18	20.9	E-Procurement	Applicable
19	34. and 35.1	Comparison on CIF Destination Basis	Not applicable
20	35.2 to 35.6	Additional Factors for Evaluation of Offers	Not applicable



Sr No	GIT Clause No.	Topic	SIT Provision
		and Preferential schemes	
21	43	Parallel Contracts	Not applicable
22	44.1	Serious Misdemeanors	Applicable
23	44.3	Integrity Pact	Not applicable
24	45.1	Notification of Award	Applicable
25	50	Applicability of additional GIT for rate Contracts	Not applicable
26	51	Applicability of additional GIT for PQB Tenders	Not applicable
27	52	Applicability of additional GIT for Tenders involving Samples	Not applicable
28	53	Applicability of additional GIT for EOI Tenders	Not applicable
29	54	Applicability of additional GIT for Tenders for Disposal of Scrap	Not applicable
30	55	Applicability of additional GIT for Development/Indigenization Tenders	Not applicable
31	Special Condition	GST Returns	Supplier/Vendor should file GST returns in time. SPM reserves the right to withhold the payment of GST till production of evidence of filling of GST returns. of filling of Returns.
32	Special Condition	TCS u/s 206C (1H) read with TDS u/s 194Q	SPM (as Buyer) is liable to deduct TDS u/s 194Q @ applicable rate on goods purchases (if applicable). In case of deduction of TDS under section 194Q; the supplier (Vendor) need not to charge TCS u/s 206C (1H) on invoicing on or after 01.07.2021
33	Special Condition	Sec. 206AB of IT Act	Vendor has to submit declaration in specified format for the compliance of section 206AB of Income tax Act, 1961. In case of non-submission of declaration; TDS will be deducted at higher rates (as applicable) as per section 206AB.

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## **Section IV: General Conditions of Contract (GCC)**

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Part I: General Conditions of Contract applicable to all types of Tenders

Kindly refer <https://spmcl.com/uploaddocument/GCC/new.pdf> for further details (GIT contains 36 pages).

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SIGNATURE OF BIDDER WITH NAME,  
DESIGNATION & SEAL

## Section V: Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below. These Special Conditions will modify/ substitute/ supplement the corresponding (GCC) clauses.

Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

(Clauses of GCC listed below include a possibility for variation in their provisions through SCC. There could be other clauses in SCC as deemed fit)

Sl.No	GCC Clause No.	Topic	SCC Provision
01	1.2	Abbreviations:	Applicable
02	6.1, 6.3 & 6.5	Performance Bond/ Security	Not Applicable
03	8.2	Packing and Marking	Applicable
04	9	Inspection and Quality Control	Not applicable
05	11.2	Transportation of Domestic Goods	Applicable
06	12.	Insurance	Applicable
07	14.1	Incidental Services	Applicable
08	15	Distribution of Dispatch Documents for clearance/ Receipt of Goods	Not applicable
09	16.1	Warrantee Clause	The supplier warrants that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by SPM in the contract. The supplier further warrants that the goods supplied undercontract shall have no defect arising from design, material or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods.
10	16.2	Warrantee Clause	Warrantee shall remain valid for 01 (One) Year after the goods have been delivered to the final destination and accepted by SPM in terms of the contract or for fifteen months from the date of despatch from the supplier's premises for domestic goods or for eighteen months after the date of shipment from the port of loading in the source country for imported goods offered from abroad, whichever is earlier, unless specified otherwise in the SCC.
11	16.4	Warrantee Clause	Upon receipt of such notice, the supplier shall, with all reasonable speed (or within the period, if specified in the SCC), repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over thereplaced parts/ goods after providing their replacements and no claim, whatsoever shall lie on SPMCIL for such replaced parts/ goods thereafter.
12	16.6	Warrantee Clause	If the supplier, having been notified, fails to

Sl.No	GCC Clause No.	Topic	SCC Provision
			rectify/replace the defects within a reasonable period, SPM may proceed to take such remedial action as deemed fit by SPM, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which SPM may have against the supplier.
13	19.3	Option Clause	Not Applicable.
14	20.1	Price Adjustment Clause	Not Applicable
15	21.	Taxes and Duties	Applicable
16	22.	Terms and Mode of payments	100% payment after receipt and acceptance of material by user department and on production of all required documents by supplier through NEFT/RTGS only.
17	24.1	Quantum of LD	Not Applicable
19	33.1	Resolution of Disputes	If dispute or difference of any kind shall arise between SPMN and the supplier in connection with or relating the contract, the parties shall make every effort to resolve the same amicably by mutual consultations. If the parties fail to resolve their dispute or difference by such mutual consultation within 21 days of its occurrence, then, unless otherwise provided in the SCC, either SPMN or the supplier may seek recourse to settlement of disputes through arbitration act 33.2.

## Section VI: List of Requirements

Schedule No.	Breif Description of goods and services (Related Specifications etc.are in Section-VII)	Accounting Unit	Quantity	Amount of Earnest Money	Remark
1	SPEL019939 Cooling fan motor	EA	2.000	0.00INR	
2	SPEL026287 A4D500AM0905 690/480W, 1350/1100N	EA	3.000		
3	SPEL026288 M4Q045-CA03-51/A60,36/10Watt,1300N	EA	2.000		
4	SPEL026249 Q Motor Impeller part no-73813-2-3634	EA	2.000		
5	SPEL023655 PG3W WATER COOLED WELD GUN	EA	1.000		
6	SPME049267 PUSHER FAN DIA 400-Pt. No. B008107010002	EA	2.000		
7	SPEL027799 AIR DRYER FAN MOTOR DIA 300MM FOR ELGI	EA	2.000		
8	SPEL027798 COOLING FAN DIA 400M FOR ELGI	EA	2.000		

SUBMISSION OF TENDER: The bid is to be submitted in two parts are as follows:

(1) Bid: TWO BID (In Two Parts)

PART-A: TECHNO-COMMERCIAL BID:

(1) Consisting of all technical specification as per section VII of this Tender document & commercial conditions. It should not have any price /price elements of the item being offered.

(2) EARNEST MONEY DEPOSIT (EMD): Not Applicable.

(3) One format of blank Price bid to be furnished without price/ price elements to know whether the firm furnished clearly all charges as required in our Price Schedule shown at Section : XI of this document.

(4) Validity: 120 days from the date of opening of the tender, offer valid for a shorter period shall be treated as unresponsive & rejected.

(5) FOR : SPM, Narmadapuram door delivery, duly unloading.

(6) Delivery Period : within 120 days from the date of issue of NAC or purchase order whichever is earlier.

(7) Payment Terms : 100% payment after receipt and acceptance of material by user department and on production

of all required documents by supplier through NEFT/RTGS only.

(8) Taxes: If any - Please strictly incorporate in our NIT Section - XI.

(9) Warranty: As per Section V.

(10) Firm has to submit manufacturer authorization form as per following :-

(a) If the bidder firm is manufacturer then firm has to submit the valid registration certificate.

(b) If the bidder firm is not the manufacturer then firm has to submit the valid manufacturers authorization certificate of the item supplied as per the standard form duly filled by OEM as per annexure XIV of this tender document. Manufacturer Authorization Certificate should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

(11) No Deviation Certificate: Bidder should confirm in their quotation, "We acceptance of all terms and condition with technical specification of tender document without any deviation".

(12) All Sections & pages of the tender documents strictly should be signed, name and sealed by bidder firm.

(13) Submit the declaration duly seal and signed by Competent Authority on your letter head as per Ministry of finance Dept. of Expenditure, Public Procurement Division OM No. F.No. 6/18/2019-PPD dated 23.07.2020 as follow (Refer GIT Clause no. 3.5).

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India: I certify that M/s.....(firm's name) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that M/s .....(firm's name) fulfills at requirements in this regard and is eligible to be considered."

**PART # B: PRICE BID:**

The bidders shall quote the price and other elements of price as per the format given as Section # XI of this tender documents. Insertion, post script, addition and alteration shall not be made, if any, will not be considered for calculating the price.

**NOTE: #BIDDER TO FURNISH STIPULATED DOCUMENTS ALONG WITH TENDER IN SUPPORT OF FULFILLMENT OF TENDER CRITERIA. FURTHER CORRESPONDENCE IN THIS REGARD WILL NOT BE ENTERTAINED FOR ANY REASON. NON-SUBMISSION OR INCOMPLETE SUBMISSION OF DOCUMENTS MAY LEAD TO REJECTION OF OFFER.#**

**NOTE : Quantities mentioned above are illustrative/ inductive and not exhaustive the actual requirement may vary (increase/ decrease) as per the need.**

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SIGNATURE OF BIDDER WITH NAME,  
DESIGNATION & SEAL

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## Section VII: Technical Specifications

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### ITEM NO. 1

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Similar Item required as per below mention detail  
used in Atlas Copco compressor serial no. APIS44323802/1,  
Part no.123118, Installed Make-ZIEHL-ABEGG  
External rotor motor with K flange Type: MK165-4DK.24.N  
3~MOT 230/400V  $\pm 10\%$  D/Y 50Hz 3,6kW  
12/7,0A 1400rpm COSY 0.89 80°C,  
IP54 THCL 155  
-Not voltage-controllable-  
Supply cable side, 225cm.  
Without wiring diagram  
Rating plate: 1x fixed.  
Mounting position H/V/u.  
Motor protection: without  
Moisture and hot climate protection.  
Painting motor: unpainted.  
Ball bearing with special lubrication.  
Ball bearing in special design.

Drawing has been attached.

### ITEM NO. 2

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Similar item required as per Below mention detail of cooling fan

AC axial fan Hy blade  
Installed Make :- ebm papst  
A4D500-AM09-05  
3-Delta Star, 400volt, 50Hz, 1.34A/0.81A  
690/480W, 1350/1100 per Minute  
Efficiency ( $\eta$ ) = 33.4% (A stabic)

Equivalent Model  
A4D500AJ0301, 400VAC , 50/60Hz

### ITEM NO. 3

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Similar item required as per Below mention detail of cooling fan.

Installed Make:- ebm papst  
M4Q045-CA03-51/A60  
230Volt, 50Hz, 0.25Amp, 36/10Watt, 1300RPM  
Q Motor- M4Q045CA0351,

### ITEM NO. 4

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Similar item required as per below mention detail of Impeller

Impeller of Q Motor- M4Q045CA035

Installed Make:- ebm papst

M4Q045-CA03-51/A60

230Volt, 50Hz, 0.25Amp, 36/10Watt, 1300RPM

ITEM NO. 5

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Similar item required as per below mention detail of spot welding Gun.

A Water-cooled Grip Hand Piece with button trigger. Accept compression electrodes. Include water cooled Grounding clamp.

Cable:1 AWG

Electrodes: 3" long, 3/8" Dia- Compression Fit.

Wt- 600-700 gram(pistol only)

dimension: 6.5"x7.5"x1.25"

Welding Equipment to pair with: Suntone CD Welders, Suntone AC

Heavy duty industrial Uses, High duty cycle condition

Drawing has been attached.

ITEM NO. 6

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Similar item required as per below mention detail

Pusher fan Dia 400mm.

ITEM NO. 7

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Similar item required as per below mention detail

Air drier fan Dia 300mm.

ITEM NO. 8

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Similar item required as per details.

fan Dia 400mm.

179W,230v/50hz,0.84A,1375 RPM,@ 84 Pa,CLF 2018/10B,Pusher fan DIA400,YDWF74L47P4-470N-400B  
6uF/450V ELGI COMPRESSOR(EN07-7)



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## **Section VIII: Quality Control Requirements**

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NOT APPLICABLE

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## **Section IX: Qualification/Eligibility Criteria**

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NOT APPLICABLE

**Section X: Tender Form**

Date.....

To,

.....

.....

.....

(Complete address of SPMCIL)

Ref: Your Tender document No..... dated .....

We, the undersigned have examined the above-mentioned tender enquiry document, including amendment No....., dated..... (If any), the receipt of which is hereby confirmed. We now offer to supply and deliver..... (description of goods and services) in conformity with your above referred document for the sum shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 6, read with modification, if any, in Section V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance for a period upto....., as required in the GIT clause19, read with modification, if any in Section-III - “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender upto the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We confirm that in case of downloaded Tender Document, we have not changed/ edited its contents. We realise that in case any such change is noticed at any stage including after the award of contract, we would be liable to action under clause 44 of the GIT.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We also solemnly declare as under:

**1. MSMEs Status:**

Having read and understood the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 (as amended and revised till date), and solemnly declare the following:

- (a) Company/Partnership Firm/Proprietary Concern/Society/Trust /NGO/Others (Please Specify):
- (b) Micro/ Small / Medium Enterprise/ SSI/ Govt. Dep't. / PSU/ Others:
- (c) Name of MSME Registering Body (NSIC/ DIC/ KVIC/KVIB etc.):
- (d) MSME Registration no. (with copy of registration):.....
- (e) Udyog Aadhar Memorandum no.....
- (f) Whether Proprietor/ Partner belongs to SC/ ST or Women category (Please specify names and percentage of shares held by SC/ST Partners): .....

**2. Make in India Status:**

Having read and understood the Public Procurement (Preference to Make in India PPP\_MII) Order, 2017 (as amended and revised till date) and related notifications from the relevant Nodal Ministry/ Department, and solemnly declare the following:

- (a) Self-Certification for category of supplier:
  - ☐ Class-I Local Supplier/
  - ☐ Class-II Local Supplier/
  - ☐ Non-Local Supplier.
- (b) We also declare that
  - ☐ There is no country whose bidders have been notified as ineligible on reciprocal basis under this order for offered product, or
  - ☐ We do not belong to any Country whose bidders are notified as ineligible on reciprocal basis under this order

**3. Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017**

Having read and understood the Order (Public Procurement No. 1) issued vide F.No.6/18/2019-PPD dated 23<sup>rd</sup> July 2020 (and its amendments if any) by Department of Expenditure, Ministry of Finance under the above provision and solemnly declare the following:

- ☐ We do not belong to any Country whose bidders are notified as ineligible under this order

**4. Debarment Status:** Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ Depts. of Government of India or by any State Govt:

- ☐ Yes (with period of Ban)
- ☐ No, We, solemnly declare that neither we nor any of our affiliates or subsidiaries – including

subcontractors or suppliers for any part of the contract—do not stand declared ineligible/blacklisted/banned/debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations.

- 5. Penalties for false or misleading declarations:** I/we hereby confirm that the particulars given above are correct and complete and also undertake to advise any future changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of code of Ethics and would attract penalties as mentioned in this tender document, including debarment.

.....  
.....

(Signature with date)

.....  
.....

Name and designation

Duly authorized to sign tender for and on behalf of

.....  
.....



## Section XI: Price Schedule

OFFER FORM for Tender No ..... Date of opening ..... Time.....Hours ..... We..... hereby certify that we are established firm of manufacturers / authorised agents of M/s.....with factories at..... which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of.....(Name of Purchaser). We hereby offer to supply the following items at the prices indicated below:

The Price bid should clearly indicate the break-up of the price as under:-

SN	Price Break Up	Schd. No. 1	Schd. No. 2	Schd. No. 3	Schd. No. 4
	<b>HSN CODE in 8 digits</b>				
1	Basic Price per unit upto F.O.R. SPM, Narmadapuram duly unloading in Rs.				
2	Total Quantity	<b>2 EA</b>	<b>3 EA</b>	<b>2 EA</b>	<b>2 EA</b>
3	<b>TOTAL (1 X 2)</b>				
4	GST in % only on 3				
5	Other taxes/charges (if any) Please specify				
6	Total price FOR SPM, Narmadapuram (in figures only) (3+4+5) Rs.				
7	<b>Total Price (F.O.R, SPM, NARMADAPURAM) (in words only) Rupees.</b>				

**SIGNATURE OF BIDDER**  
**(WITH NAME, DESIGNATION AND SEAL)**



SN	Price Break Up	Schd. No. 5	Schd. No. 6	Schd. No. 7	Schd. No. 8
	<b>HSN CODE in 8 digits</b>				
1	Basic Price per unit upto F.O.R. SPM, Narmadapuram duly unloading in Rs.				
2	Total Quantity	<b>1 EA</b>	<b>2 EA</b>	<b>2 EA</b>	<b>2 EA</b>
3	<b>TOTAL (1 X 2)</b>				
4	GST in % only on 3				
5	Other taxes/charges (if any) Please specify				
6	Total price FOR SPM, Narmadapuram (in figures only) (3+4+5) Rs.				
7	<b>Total Price (F.O.R, SPM, NARMADAPURAM) (in words only) Rupees.</b>				

**NOTE :**

1. Scope of Supply: (Cost break-up of the quoted cost, showing inter-alia costs of all the concomitant Installation/ Commissioning/ Training/ Technical Support/ incidental services/ software/ accessories, considered necessary to make the proposal self-contained and complete must be indicated here.)

2. Taxation Details:

- PAN number.....
- Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.)
- GSTIN number.....
- Registered Address as per GST registration and Place of Delivery for GST Purpose
- Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts)

3. It is hereby certified that we have understood the General and Special Instructions to Tenderers (GIT and SIT), and also the General and Special Conditions of Contract (GCC and SCC) attached to the tender and have thoroughly examined specifications/ Quality Control Requirements and other stipulations in Section VII & VIII- Technical Specifications and Quality Control Requirements; and are thoroughly aware of the nature of stores required and our offer is to supply stores strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the General and Special Conditions of Contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

4. We hereby offer to supply the stores detailed above or such portion thereof, as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of ---- days from the date of opening of tender (i.e., upto -----), We shall be bound by the communication of acceptance dispatched within the prescribe time.

5. Earnests Money/Bid Guarantee for an amount equal to ..... is enclosed in form of ----- (form and reference number, date) as per the Tender Documents.



**Tender Number : 6000017746**

6. TCS (u/s 206C (1 H) of IT Act is not applicable, as SPM will deduct TDS u/s 194Q.

7. The method of evaluation of L1 criteria for awarding the contract shall be decided taking into consideration the item-wise total landed price up to SPM Narmadapuram.

Note:

(i) The Bidder may prepare their own offer forms as per this proforma.

(ii) No change in the proforma is permissible.

(iii) No erasures or alternations in the text of the offer are permitted. Any correction made in the offer shall be initialed by the bidder.

(iv) This Section should not bring in any new Technical Parameter that has not been mentioned in the Technical Bid.

NOTE : 'BIDDER TO FURNISH STIPULATED DOCUMENTS ALONG WITH TENDER IN SUPPORT OF FULFILLMENT OF TENDER CRITERIA. FURTHER CORRESPONDENCE IN THIS REGARD WILL NOT BE ENTERTAINED FOR ANY REASON. NON-SUBMISSION OR INCOMPLETE SUBMISSION OF DOCUMENTS MAY LEAD TO REJECTION OF OFFER.

**SIGNATURE OF BIDDER  
(WITH NAME, DESIGNATION AND SEAL)**



## **Section XII Vendor Details**

The tenderer should furnish specific details mentioned below. In case a question/issue does not apply to a tenderer, the same should be answered with the remark “not applicable”.

Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.

In case a tenderer furnishes a wrong or misleading answer against any of the under mentioned question/ issues, its tender will be liable to be ignored.

### **1. Vendor/ Contractor particulars:**

- (a) Name of the Company: .....
- (b) Corporate Identity No. (CIN): .....
- (c) Registration if any with SPMCIL: .....
- (d) Complete Postal Address: .....
- (e) Pin code/ ZIP code: .....
- (f) Telephone nos. (with country/area codes):.....
- (g) Fax No.: (with country/area codes): .....
- (h) Cell phone Nos.: (with country/area codes): .....
- (i) Contact persons /Designation: .....
- (j) Email IDs: .....

### **2. Taxation Details:**

- (a) PAN Number: .....
- (b) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.):  
.....
- (c) GSTIN number: .....
- (d) Registered Address as per GST registration and Place of Delivery for GST Purpose:
- (e) Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts):



**Tender Number: 6000017746**

- ☐ We solemnly declare that our GST rating on the GST portal / Govt. official website is NOT negative / blacklisted during the last three financial years.

.....

(Signature with date)

.....

.....

(Full name, designation & address of the person duly authorized sign on behalf of the tenderer)

For and on behalf of

.....

.....

(Name, address, and stamp of the tendering firm)

**Section XIV: Manufacturer's Authorization Form**

To

.....

.....

*(Name and address of SPMCIL)*

Dear Sirs,

Ref. Your Tender document No ....., dated .....

We,.....who are proven and reputable manufacturers of  
..... *(name and description of the goods offered in the tender)* having  
factories at ....., hereby authorize Messrs.  
..... *(name and address of the agent)* to submit a tender, process the same further  
and enter into a contract with you against your requirement as contained in the above referred tender  
enquiry documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs.....  
..... *(name and address of the above agent)* is authorized to  
submit a tender, process the same further and enter into a contract with you against your requirement  
as contained in the above referred tender enquiry documents for the above goods manufactured by us.

We also hereby extend our full warranty, as applicable as per clause 16 of the General Conditions of  
Contract read with modification, if any, in the Special Conditions of Contract for the goods and services  
offered for supply by the above firm against this tender document.

Yours faithfully,

.....

.....

*[Signature with date, name, and designation]*

for and on behalf of Messrs.....

*Name & address of the manufacturers*

*Note: This letter of authorization should be on the letter head of the manufacturing firm and should be  
signed by a person competent and having the power of attorney to legally bind the manufacturer.*

**Section XVI: Contract Form**

(Address of SPMCIL's office issuing the contract)

Contract No..... dated.....

This is in continuation to this office' Notification of Award No ..... dated .....

1. Name & address of the Supplier .....
2. SPMCIL's Tender document No ..... dated .....and subsequent Amendment No ....., dated.....(If any), issued by SPMCIL.
3. Supplier's Tender No..... dated..... and subsequent communication(s) No.....dated ..... (If any), exchanged between the supplier and SPMCIL in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as part of this contract:
  - (i) General Conditions of Contract;
  - (ii) Special Conditions of Contract;
  - (iii) List of Requirements;
  - (iv) Technical Specifications;
  - (v) Quality Control Requirements;
  - (vi) Tender Form furnished by the supplier;
  - (vii) Price Schedule(s) furnished by the supplier in its tender;
  - (viii) Manufacturers' Authorization Form (if applicable for this tender);
  - (ix) SPMCIL's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under Section – V - 'General Conditions of Contract' of SPMCIL's Tender document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:
  - (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of goods/ services	Accounting unit	Quantity to be supplied	Unit Price (in Rs.)	Total price

Any other additional services (if applicable) and cost there of: .....

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

- (ii) Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control
  - (a) Mode(s), stage(s), and place(s) of conducting inspections and tests.
  - (b) Designation and address of SPMCIL's inspecting officer
- (v) Destination and dispatch instructions
- (vi) Consignee, including port consignee, if any
- (vii) Warranty clause
- (viii) Payment terms
- (ix) Paying authority

(Signature, name, and address of SPMCIL's authorized official)

For and on behalf of .....

Received and accepted this contract .....

(Signature, name, and address of the supplier's executive duly authorized to sign on behalf of the supplier)

For and on behalf of .....

(Name and address of the supplier)

.....

(Seal of the supplier)

Date:

Place:

**Section XVII: Letter of Authority for attending a Pre-bid Conference/ Bid  
Opening**

**(Refer to clause 24.2 of GIT)**

The General Manager

Unit Address

Subject: Authorization for attending bid opening on \_\_\_\_\_ (date) in  
the Tender of \_\_\_\_\_.

Following persons are hereby authorized to attend the bid opening for the tender mentioned above  
on behalf of ..... (Bidder) in order of preference given below.

Order of Preference	Name	Specimen Signatures
I.		
II.		
Alternate Representative		
Signatures of bidder or  Officer authorized to sign the bid Documents on behalf of the bidder		

**NOTE**

1. Maximum of two representatives will be permitted to attend pre-bid conference/ bid opening. In cases where it is restricted to one, first named representative will be allowed to attend. Alternate representative will be permitted when regular representatives are not able to attend.
2. In case of pre-bid conference, self-attested copy of proof of purchase of Bid documents, in the name of the bidder must be enclosed with this authorization, without which entry would be refused. Bid documents would be available for sale at the site also.
3. Permission for entry to the hall where even is held may be refused in case authorization as prescribed above is not produced.

**Section XVIII: Proforma of Bills for Payments**

**(Refer Clause 22.6 of GCC)**

Name and Address of the Firm .....

Bill No ..... Dated .....

Purchase order ..... No ..... Dated .....

Name and address of the consignee

S. No	Authority for purchase	Description of Stores	Number or quantity	Rate Rs. P.	Price per Rs. P.	Amount
Total						

1. GST/ CGST/ SGST/ UTGST/ IGST Amount
2. Freight (if applicable)
3. Excise Duty (if applicable)
4. Packing and Forwarding charges (if applicable)
5. Others (Please specify)
6. PVC Amount (with calculation sheet enclosed)
7. (-) deduction/Discount
8. Net amount payable (in words Rs.)
9. TCS (u/s 206C (1 H) of IT Act in not applicable, as SPM will deduct TDS U/s 194Q.

Dispatch detail RR No. other proof of dispatch .....

Dated ..... (enclosed)

Inspection Certificate No ..... dated ..... (enclosed)

Place and Date

Received Rs .....

Rupees) .....

We solemnly certify that:

- a. Goods and Services Tax (GST) charged on this Bill is not more than what is payable under the provision of the relevant Act or the Rules made there under.
- b. Goods on which GST has been charged have not been exempted under the GST Act or the rules made there under and the charges on account of GST on these goods are correct under the provisions of that Act or the Rules made there under.
- c. We are registered with above indicated GSTIN as dealer in the State where in their Billing address is located for the purpose of GST.
- d. This bill form / invoice is not a replacement for the GST invoice. The proper GST invoice as per requirements of GST rules has been sent to the Purchaser as and when deliveries are made to the consignee.
- e. That the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

Revenue stamp

Signature and of Stamp Supplier



**Section XIX: NEFT Mandate**

**(Refer clause 22.2 of GCC)**

From: M/s. ....

Date: .....

To:

(Insert Name and Address of Purchaser's Paying Authority as per NIT Clause 1)

Sub: NEFT payments

We refer to RBI's NEFT scheme. Our mandate SPMCIL for making payments to us through the above scheme to our under noted account.

**NATIONAL ELECTRONIC FUNDS TRANSFER MANDATE FORM**

1.	Name of City	
2.	Bank Code No.	
3.	Branch Code No.	
4.	Bank's Name	
5.	Branch Address	
6.	Branch Telephone / Fax No.	
7.	Supplier's Account No.	
8.	Type of Account	
9.	IFSC code for NEFT	
10.	IFSC code for RTGS	
11.	Supplier's name as per Account	
12.	MICR Code No.	

In Lieu of Bank Certificate to be obtained as under, please attach a bank cancelled cheque or photocopy of a cheque or front page of your bank passbook issued by your bank for verification of the above particulars.



**Tender Number: 6000017746**

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option intimation letter and agree to discharge responsibility expected of me as a participant under the scheme.

Date

Signature of the Customer

Certified that the above particulars are correct as per our record.

Stamp and  
Signature of authorized  
Official of the bank

**ANNEXURE – I**

**TWO BID, SINGLE STAGE (TWO PACKET) TENDER**

**BIDDER'S CHECK LIST BEFORE TENDER SUBMISSION**

**Part I: - TECHNO-COMMERCIAL BID (Refer as per Section VI-List of Requirement, PART-A)**

S.No.	Tender Submission Check Points	Check before submission Tick ( <input checked="" type="checkbox"/> )
1	Tender Fee	Not Applicable
2	Earnest Money Deposited	Not Applicable
3	Tender Document duly Seal & Signed	
4	F.O.R. /Place of work:- SPM Narmadapuram duly unloaded	
5	Blank Price Bid as per Section XI (Without Price)	
6	Tender Validity <b>120 days</b> as per the tender	
7	Technical specification/ Scope of work as per Section VII	
8	Payment Terms as per Section V	
9	Submit Manufacturer's Authorization form (if applicable)	
10	Accept the Warranty clause as per tender (if applicable)	
11	Submit Eligibility Criteria - Section IX Duly seal & sign	
12	Fill Tender Form- Section X Duly seal & sign (without mentioning price)	
13	Period of Work/Delivery Terms : As per Section VI of our tender	
14	Submit declaration as per Annexure II, III & IV	

**Part II: - PRICE BID**

S.No.	Tender Submission Check Points	Check before submission Tick ( <input checked="" type="checkbox"/> )
1	Price Bid as per Section XI (Price including all taxes & other charges )	

.....  
(Bidder's Seal & Sign)

**Note:**

1. Copy of this completed checklist to be necessarily enclosed alongwith bid.
2. "Bidder to furnish stipulated documents along with tender in support of fulfillment of tender criteria. Further correspondence in this regard will not be entertained for any reason. Non-submission or incomplete submission of documents may lead to rejection of offer."



Tender Number: 6000017746

**ANNEXURE – II**

**Tender No. 6000017746/EL/PM5/828, dated 13.09.2022  
(To be submitted on the letter head)**

**DECLARATION**

We do hereby declare that,

1. We have not been blacklisted /debarred by BNPMIPL /BRBNMPL /SPMCIL or any Govt. Departments for participation in tenders. The information provided above is correct and true to the best of my knowledge and belief.
2. We do hereby declare that we have read and understood all terms and conditions of tender document including GIT, SIT, GCC, SCC, Technical Specification, Quality Control Criteria and confirm to abide to those conditions without any counter conditions.
3. "We are accepting all the terms and conditions of the tender document without any deviation and withdraw all deviations if any"

Signature.....

Name.....

Designation.....

Date.....

Stamp of the Organization.....



Tender Number: 6000017746

**ANNEXURE – III**

**Tender No. 6000017746/EL/PM5/828, dated 13.09.2022  
(To be submitted on the letter head)**

**DECLARATION**

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that M/s.....(**firm's name**) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that M/s ..... (**firm's name**) fulfills all requirements in this regard and is eligible to be considered." (where applicable, evidence of valid registration by the competent Authority shall be attached)"

I, the undersigned, declare that the item.....originate in.....(Name of the country).

Signature.....

Name.....

Designation.....

Date.....

Stamp of the Organization.....

**ANNEXURE – IV**

**Tender No. 6000017746/EL/PM5/828, dated 13.09.2022  
(To be submitted on the letter head)**

**Declaration for Section 206AB of TDS under Income Tax Act, 1961**

Vendor Code: \_\_\_\_\_

M/s \_\_\_\_\_

PAN \_\_\_\_\_

GSTIN \_\_\_\_\_

I/We (Legal Name and Complete Address) \_\_\_\_\_ PAN: (PAN No.)  
\_\_\_\_\_, TAN: (TAN No.) \_\_\_\_\_, referring to the provisions of  
206AB of the IT Act, 1961, hereby declare the following:-

Financial Year	Aggregate TDS & TCS credit in our name was Rs. 50,000 or more ("Yes/No")	Income Tax Return ("ITR") Filed ("Yes/No")	E-filing Acknowledgement Number (15 digit – number) (Attach copy of acknowledgements)	Date of Filing of Return of income u/s 139/1 (DD/MM/YYYY)	Linked PAN with Aadhaar number or will link it before 30 June 2021 (or any further date as may be notified by CBDT ("Yes/No"))
<b>2018-19</b>					
<b>2019-20</b>					

We do hereby declare that to the best of my/our knowledge and belief what is stated above is correct, complete and is truly stated. In case there is a tax liability, interest or penal consequences which are levied on SPM on account of the false representation/declaration, I/we undertake to fully indemnify SPM for the same.

FOR \_\_\_\_\_

Authorized Signatory

Date:

*Note: In case the vendor failed to comply with the above provisions, TDS shall be deducted at the higher of the following rates, namely:-*

- (i) at twice the rate specified in the relevant provision of the Act; or
- (ii) at twice the rate or rates in force; or
- (iii) at the rate of five per cent (5%).

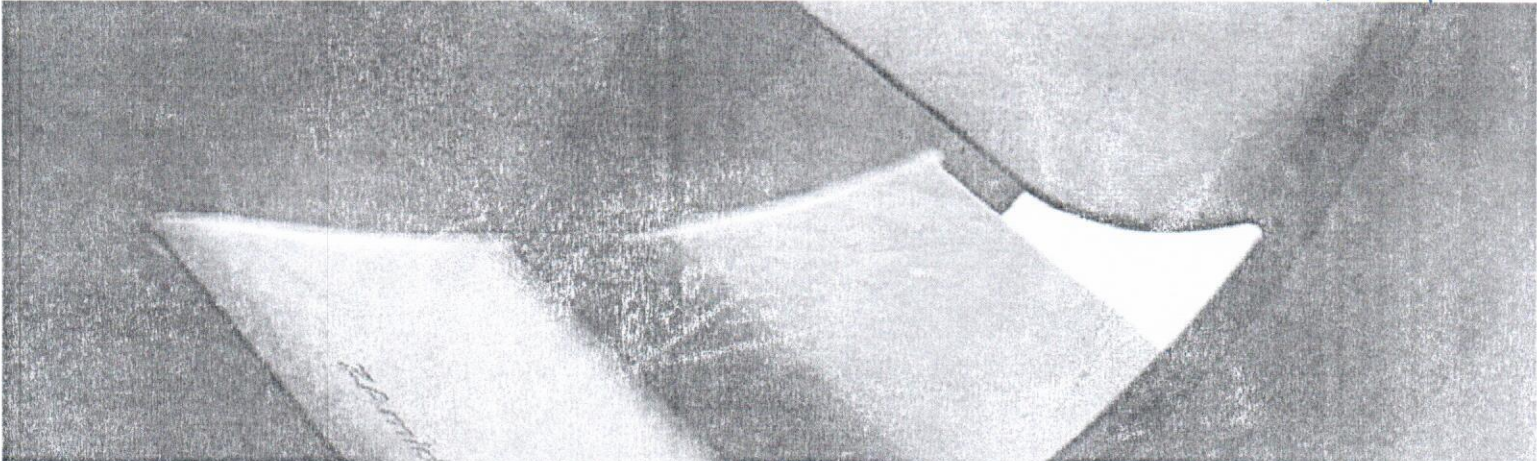
item no. 10

IN



Movement by Perfection

ANNEXURE-5  
DRAWINGS



The Royal League in ventilation, control and drive technology

Product documentation

Type  
MK165-4DK.24.N

Article number  
123118

**ZIEHL-ABEGG**

Article number  
123118

# The Royal League

## Die Königsklasse

### Product documentation

Customer

ZIEHL-ABEGG Contact

Ke Song

Tel. +49 7940 16 90455

Ke.Song@ziehl-abegg.de

Project

ZIEHL-ABEGG Subsidiary

India

ZIEHL-ABEGG INDIA PVT LTD.

Plot No. E-8, Chakan Industrial Area,

Phase III, Village Kuruli, Tal. Khed,

Chakan, Pune- 410 501, Maharashtra,

INDIA

Phone +91 21 3567 9679

Fax +91 21 3567 9680

www.ziehl-abegg.in

vikas.kundra@ziehl-abegg.com

Type

MK165-4DK.24.N

Article number

123118

### Contents

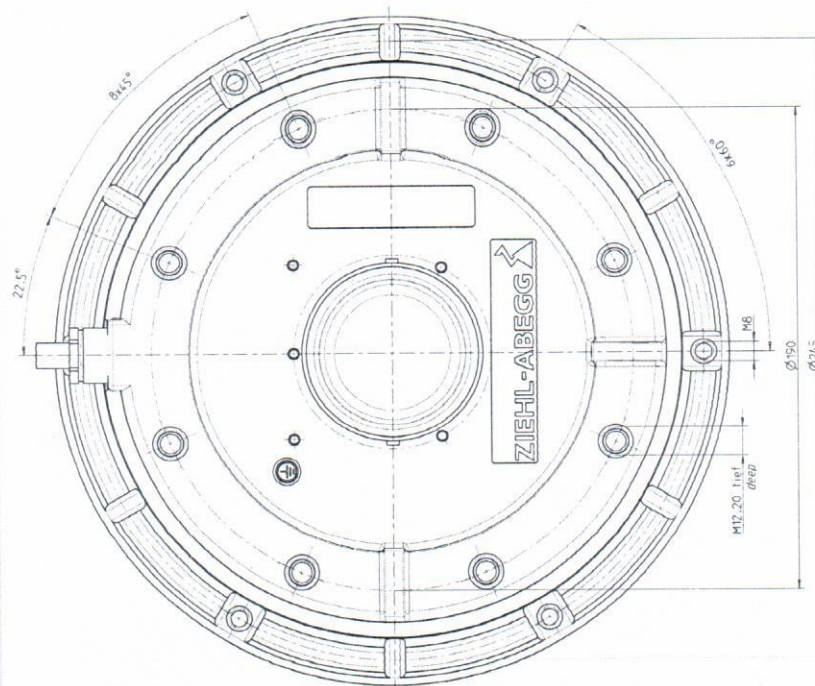
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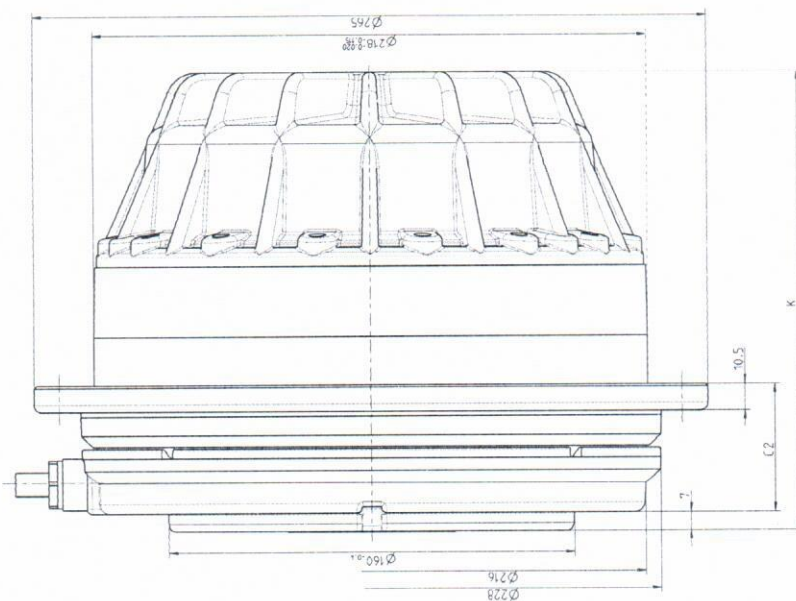
Article number  
123118

# The Royal League

## Die Königsklasse



Masse nach L-AH-001.3  
weight according to L-AH-001.3



2. Drawing

5

3. EU-Declaration of conformity

6

www.ziehl-abegg.com  
07.08.2018 10:09:53

Movement by Perfection | Bewegung durch Perfektion

3 | 7

© ZIEHL-ABEGG SE

TPL\_PG\_Datenblatt-V6-10

Release Date: 08.02.2013

Technical changes reserved

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Article number  
123118

# The Royal League

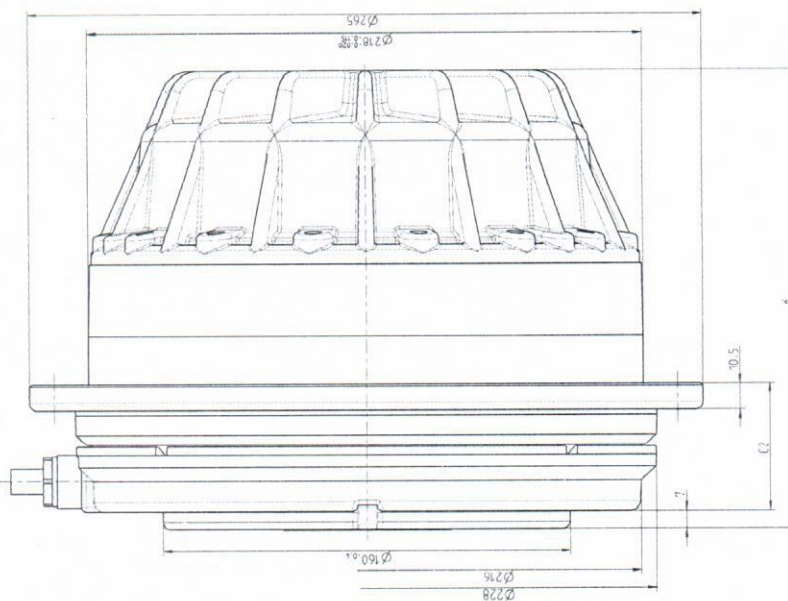
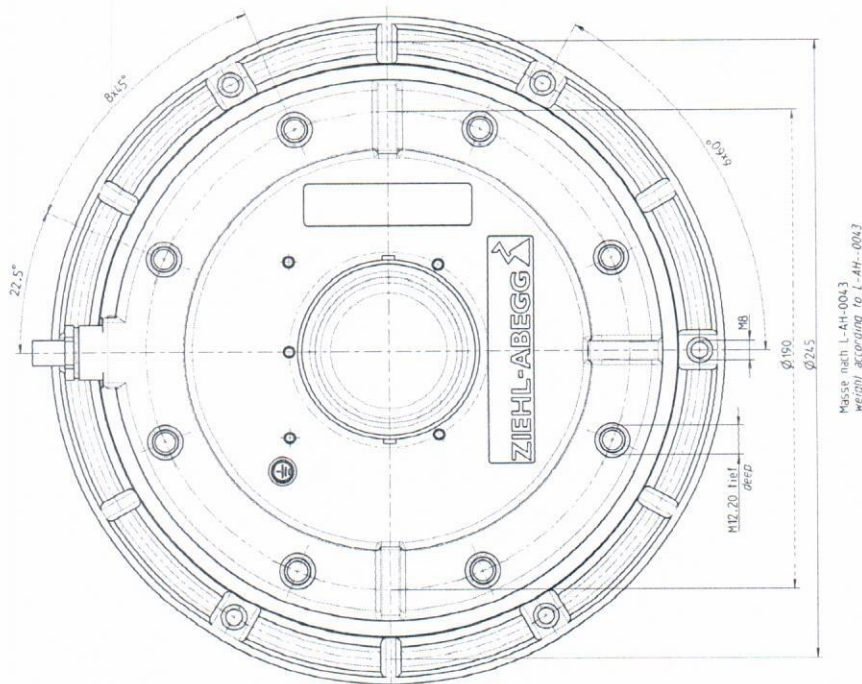
## Die Königsklasse

### 1. Product specification

#### Technical data

Article number	123118
Type	MK165-4DK.24.N
Designation	External rotor motor
Rated values	3~MOT230/400V $\pm 10\%$ $\Delta/Y$ 50Hz 12,00/ 7,00A 1400/min COSY 0,89 80°C
Electrical connection	Supply cable side, 7x 1,31mm <sup>2</sup> (AWG16)x 225cm
Min. operating temperature [°C]	-40
Cable quality	Li2G2G-J
Connection diagram	ohne
Installation position	zzz_NUR MK_
Motor protection	without
Type of protection	IP54
Thermal class	Thermal class 155
Impregnation	Moisture and hot climate protection
Quality of bearings	Ball bearing with special lubrication
Special bearing	Ballbearing in special design
Labelling UL/CSA	zzz_xx
Other	Motor not balanced.
Weight kg	34,00
ErP Data	

### 2. Drawing



Dimensions in mm

Shown drawing is just to show the dimensions of the fan.



### 3. EU-Declaration of conformity

#### EC-Declaration of conformity

- Translation -  
(english)

ZA75-GB 1616 Index 011  
00285644-GB

Manufacturer: ZIEHL-ABEGG SE  
Heinz-Ziehl-Straße  
74653 Künzelsau  
Germany

The manufacturer is solely responsible for issuance of the declaration of conformity.

#### The products:

- External rotor motor MK..., MW...
- Axial fan FA..., FB..., FC..., FE..., FF..., FS..., FT..., FH..., FL..., FN..., FV..., DN..., VR..., VN..., ZC..., ZF..., ZN...
- Centrifugal fan RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., GR..., ER...
- Cross-flow fan QK..., QR..., QT..., QG...

#### The engine type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter, except EDP system
- Electronically commutated (EC) internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC Controller, except EDP system

#### These products comply with the following EU directives:

- EMC Directive 2014/30/EU
- Low voltage directive 2014/35/EU
- ErP Directive 2009/125/EC, in conjunction with Regulation (EU) no. 327/2011

#### The following harmonized standards are in use:

EN 60034-1:2010 + Cor.:2010                      EN 61000-6-3:2007 + A1:2011 + AC:2012  
EN 60204-1:2006 + A1:2009 + AC:2010            EN 61000-6-2:2005 + AC:2005  
EN 60529:1991 + A1:2000 + A2:2013

Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW...

All ErP-relevant information comprises measurements which are determined using a standardised measurement set-up. More details can be obtained from the manufacturer.

Compliance with the EMC Directive 2014/30 / EU refers only to those products when they are connected by mounting / operating instructions. If these products are integrated into a system or supplemented with other components (eg. sensing controls) and operated, the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30 / EU.

Künzelsau, 20.04.2016  
(Location, date of issue)

ZIEHL-ABEGG SE  
Dr. W. Angelis  
Technical Director Air Movement Division  
(Name, Function)

*Dr. W. Angelis*

(Signature)

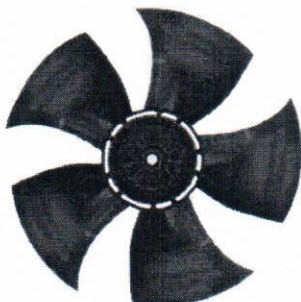
ZIEHL-ABEGG 

A4D500-AJ03-01

# AC axial fan - HyBlade

sickle-shaped blades (S series)

Item No.: 20; SPELO 26287



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## Nominal data

Type A4D500-AJ03-01

Motor M4D110-EF

Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min <sup>-1</sup>	1340	1060
Power consumption	W	710	480
Current draw	A	1.4	0.8
Max. back pressure	Pa	140	87
Max. back pressure	in. wg	0.56	0.35
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	60	60
Starting current	A	4.6	1.55

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change

## Data according to Commission Regulation (EU) 327/2011 (EN 17166)

	Actual	Reg. 2015			
01 Overall efficiency $\eta_{es}$	%	33	32.7	09 Power consumption $P_e$	kW 0.69
02 Measurement category		A		09 Air flow $q_v$	m <sup>3</sup> /h 6025
03 Efficiency category		Static		09 Pressure increase $p_{fs}$	Pa 137
04 Efficiency grade N		40.3	40	10 Speed (rpm) n	min <sup>-1</sup> 1350
05 Variable speed drive		No		11 Specific ratio*	1.00

Data obtained at optimum efficiency level.  
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

\* Specific ratio =  $1 + p_{fs} / 100\,000\text{ Pa}$

LU-199078



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Item No. 20, SPELO26287

## Technical description

Weight	7.7 kg
Size	500 mm
Motor size	110
Rotor surface	Painted black
Terminal box material	PP plastic
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010); CE
Approval	VDE; CCC; EAC



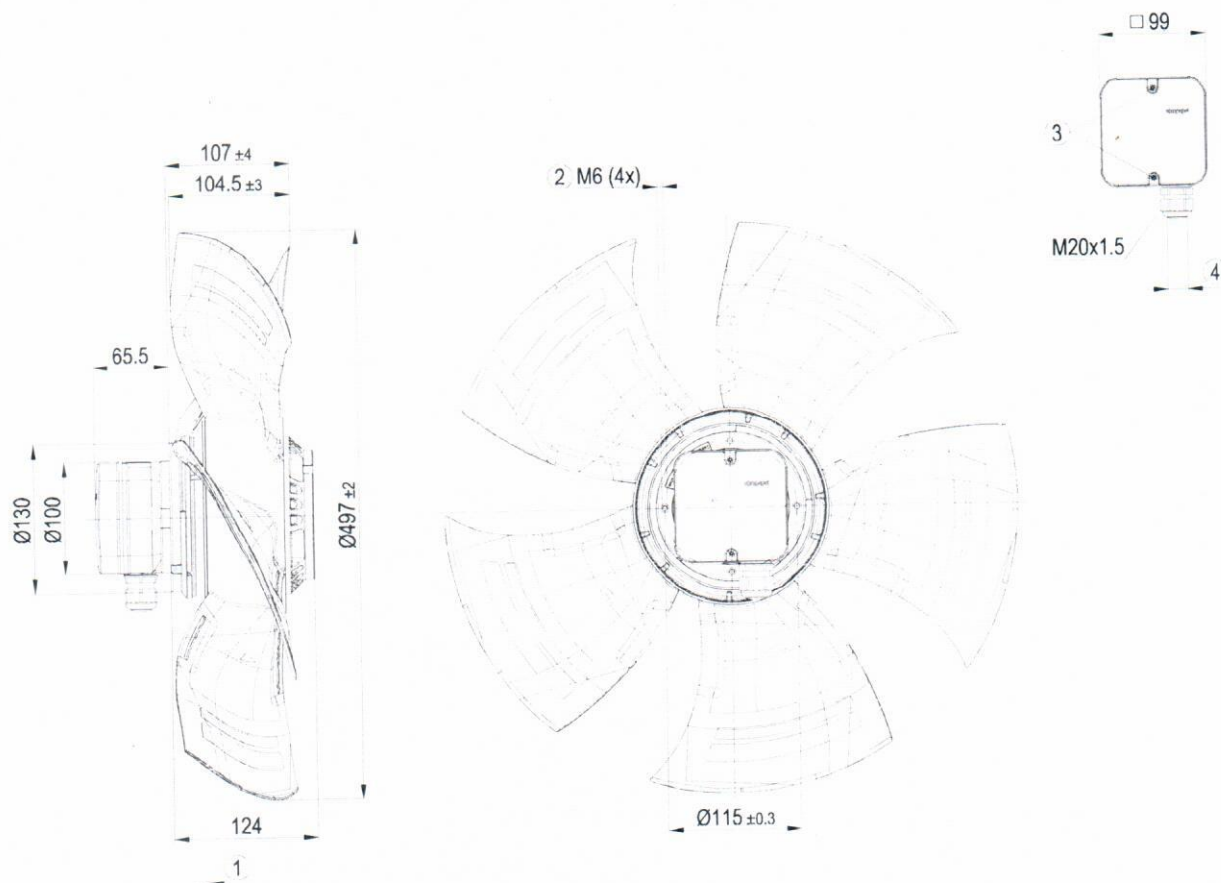


## AC axial fan - HyBlade

sickle-shaped blades (S series)

ITEM NO = 20', SPELQ26287

## Product drawing



- 1 Direction of air flow "V"
- 2 Max. clearance for screw 12 mm
- 3 Tightening torque  $1.5 \pm 0.2$  Nm
- 4 Cable diameter min. 6 mm, max. 12 mm, tightening torque  $2 \pm 0.3$  Nm

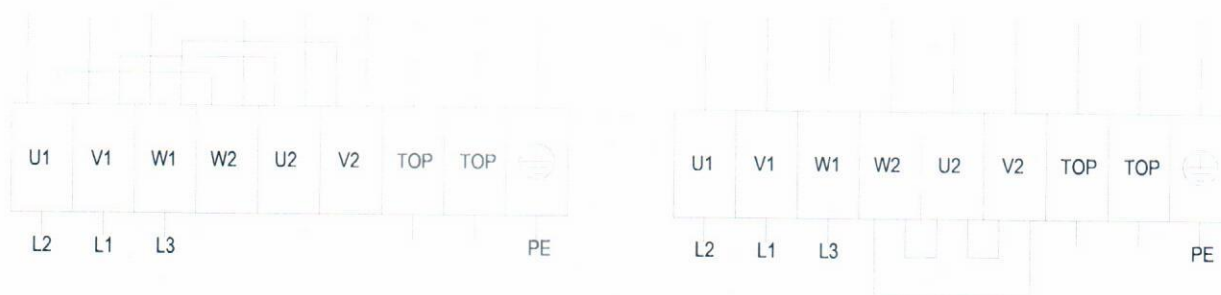


## AC axial fan - HyBlade

sickle-shaped blades (S series)

## Connection diagram

ITEM NO: 20; SPELO26287



Δ Delta connection  
 L2 = U1 = black  
 U2 green  
 PE green/yellow

Y Star connection  
 L3 = W1 = brown  
 V2 white

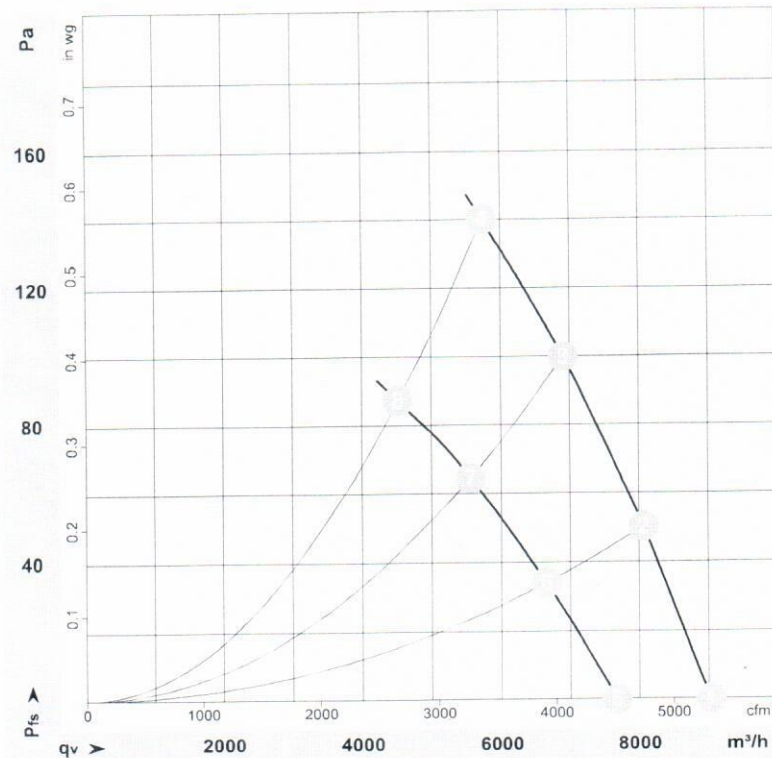
L1 = V1 = blue  
 W2 yellow  
 TOP 2x gray





ITEM NO=20; SPELO26287

Curves: Air performance 50 Hz

 $\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$ Measurement: LU-105607-1  
Measurement: LU-105610-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

## Measured values

	Wired	U	f	n	P <sub>e</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	LwA <sub>out</sub>	q <sub>v</sub>	P <sub>fs</sub>	q <sub>v</sub>	P <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	Δ	400	50	1395	537	1.25	68	75	75	9030	0	5315	0.00
2	Δ	400	50	1375	601	1.30	65	72	72	8060	50	4745	0.20
3	Δ	400	50	1360	661	1.35	64	71	71	6905	100	4065	0.40
4	Δ	400	50	1340	710	1.40	64	71	71	5730	140	3375	0.56
5	Y	400	50	1180	393	0.65	65	71	71	7675	0	4515	0.00
6	Y	400	50	1135	429	0.71	61	68	68	6655	34	3915	0.14
7	Y	400	50	1095	458	0.76	59	66	66	5560	65	3270	0.26
8	Y	400	50	1060	480	0.80	58	65	65	4520	87	2660	0.35

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side  
LwA<sub>out</sub> = Sound power level outlet side · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase



M4Q045-CA03-51

## AC motor

ITEM No. 30 ; SPELO 26208

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### Nominal data

Type M4Q045-CA03-51

Motor M4Q045-CA

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		me	me
Valid for approval/standard		CE	CE
Speed (rpm)	min <sup>-1</sup>	1300	1550
Power consumption	W	36	34
Power output	W	10	9
Current draw	A	0.25	0.22
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	40	40
Starting current	A	0.33	0.3

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



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ITEM NO: SPELO26288

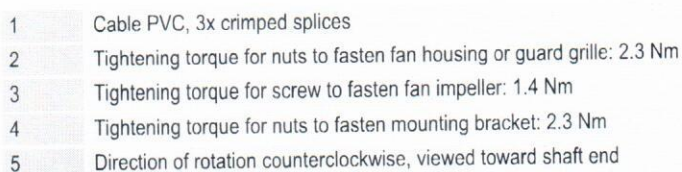
## Technical description

Weight	1.1 kg
Fan size	45 mm
Bearing shield material	Die-cast aluminum
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP42; installation- and position-dependent
Insulation class	"B"
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal
Condensation drainage holes	None
Mode	S1
Motor bearing	Calotte bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Impedance protection
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	EAC; VDE



## AC motor

### Product drawing

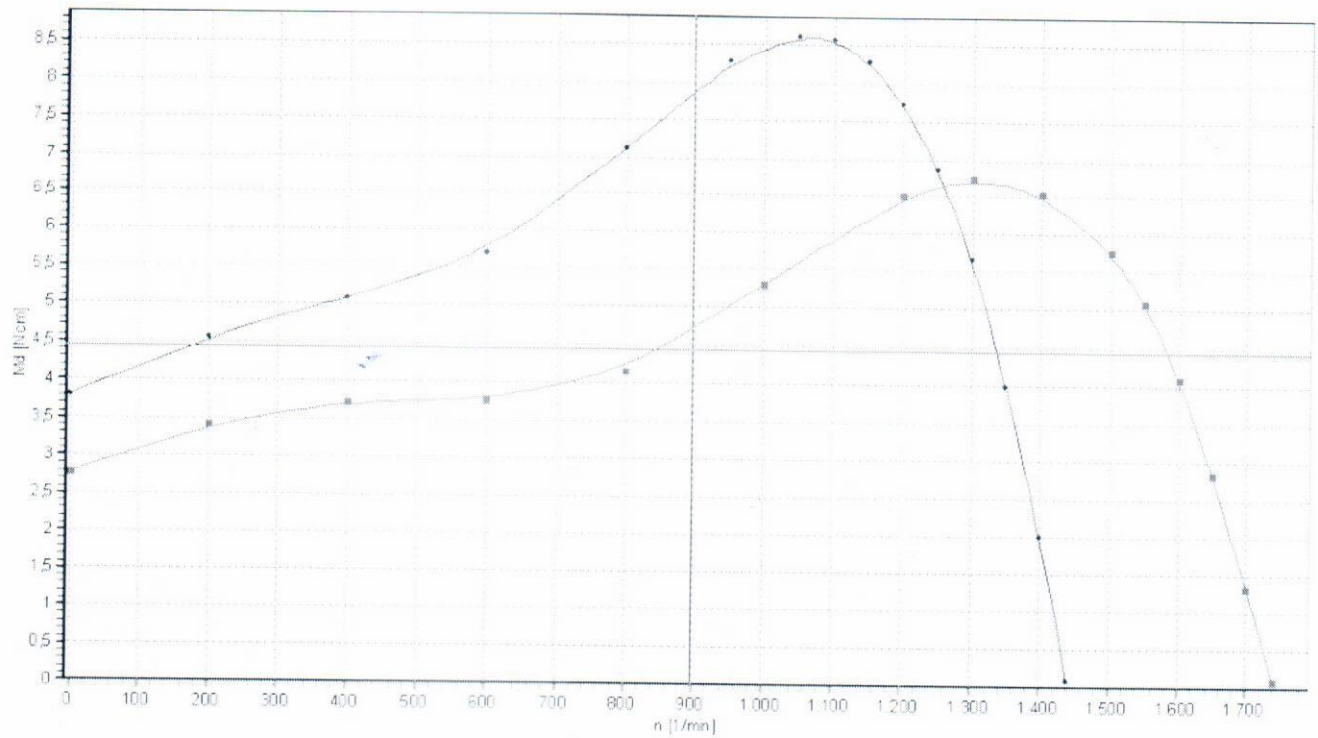


N brown



Curves: Speed (rpm)

ITEM No: 30; SPEED 26788



ITEM NO. = SPELO26249

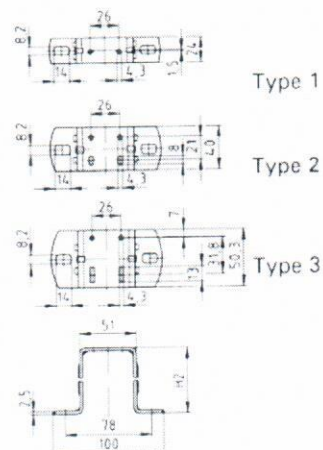
ITEM NO = 40

## M4Q Series Accessories

Q-Motors

### BRACKETS

Motor Series	Bracket Part Number	Bracket Type	H2 (mm)
M4Q045-BD	71881-2-4053	1	39
	71882-2-4053	1	52
	71883-2-4053	1	72
M4Q045-CA	71883-2-4053	1	72
M4Q045-CA	71883-2-4053	1	72
	71884-2-4053	1	84
M4Q045-CF	71884-2-4053	1	84
M4Q045-DA	71885-2-4053	2	84
	71886-2-4053	2	109
M4Q045-DA	71886-2-4053	2	109
M4Q045-EA	71887-2-4053	3	109
M4Q045-EF	71887-2-4053	3	109



## Q-Motor Impeller Part Numbers

Part Number (A)	Impeller Size (mm)	Impeller Pitch (°)	Impeller Part Number (V)	Exhaust over motor
73761-2-3634	154	22	73801-2-3634	
73762-2-3634	154	28	73802-2-3634	
73763-2-3634	154	34	73803-2-3634	
73764-2-3634	172	22	73804-2-3634	
73765-2-3634	172	28	73805-2-3634	
73766-2-3634	172	34	73806-2-3634	
73767-2-3634	200	22	73807-2-3634	
73768-2-3634	200	28	73808-2-3634	
73769-2-3634	200	34	73809-2-3634	
73770-2-3634	230	22	73810-2-3634	
73771-2-3634	230	28	73811-2-3634	
73772-2-3634	230	34	73812-2-3634	
73773-2-3634	254	22	73813-2-3634	
73774-2-3634	254	28	73814-2-3634	
73775-2-3634	254	34	73815-2-3634	
73776-2-3634	300	22	73816-2-3634	
73777-2-3634	300	28	73817-2-3634	
73778-2-3634	300	34	73818-2-3634	

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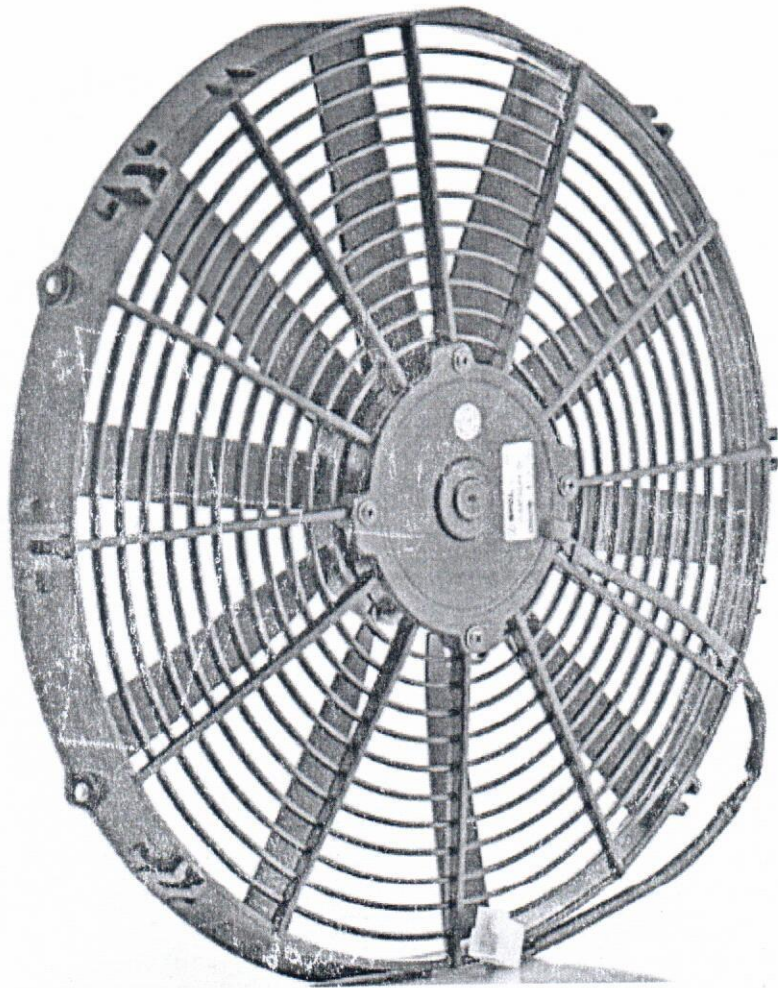
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item no. 60



SR-N12 02



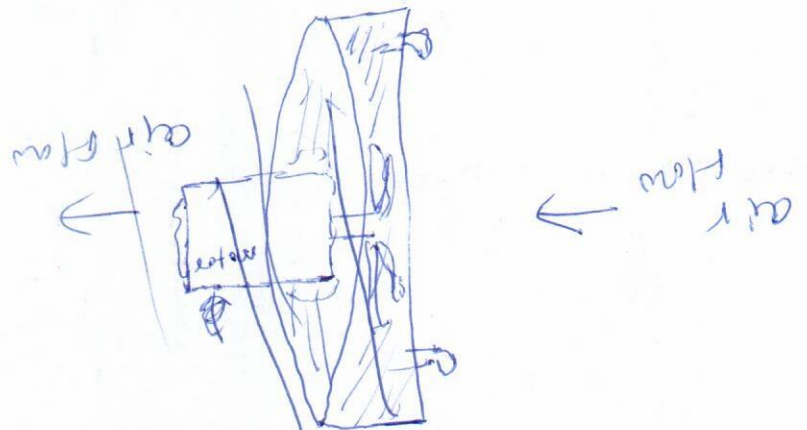
Cam. - 04

Dryer fan  
MA-VIB

Code-VR C4L3A305.Y

230V 50/60Hz

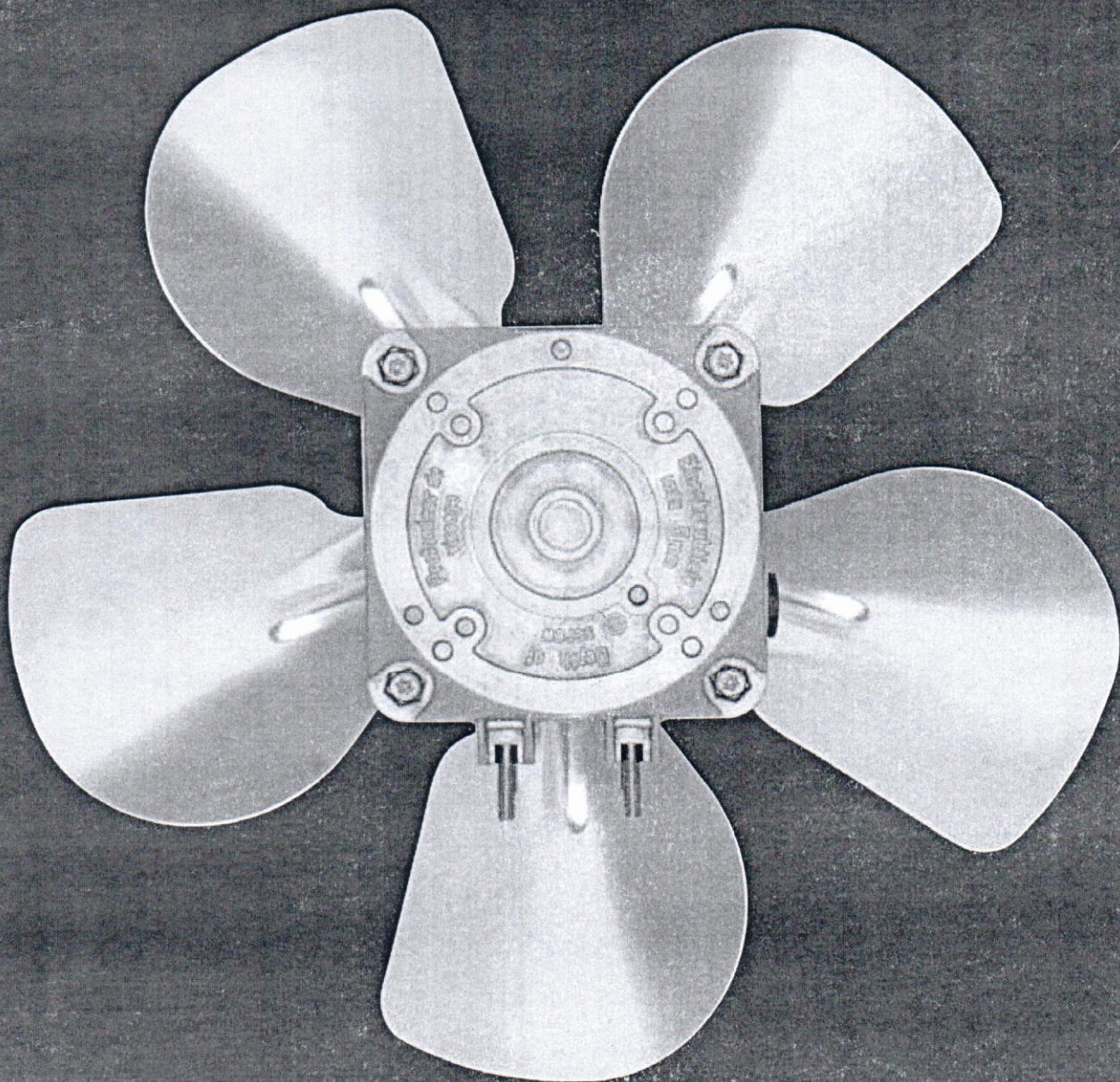
0.40/0.514, 1300/1400 rpm  
93/120V, 2.5MF, 400V





Square shaded-pole motors (Q-motors) item 70

Standard design	302
Multi-function design	304
Frigo design	305
Plug terminal design	306
UL and CSA design	307
Air performance curves	308



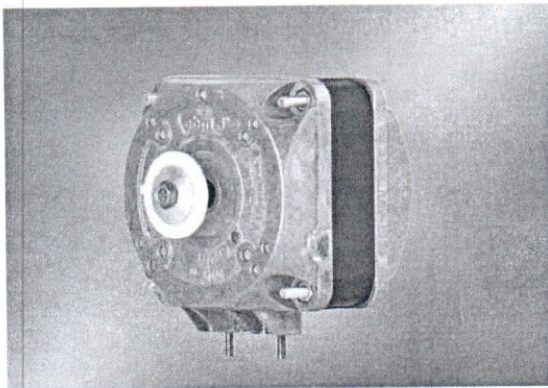


# Square shaded-pole motors

item 70

Standard design

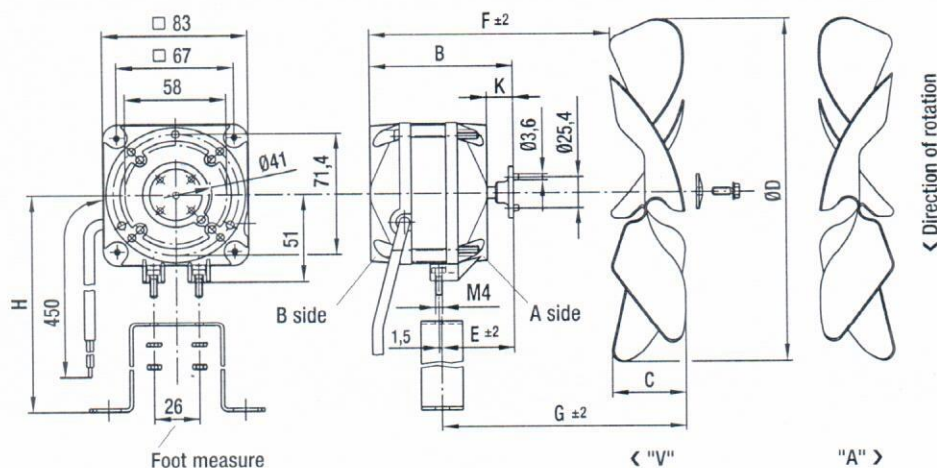
- **Foot mounting:** Track dimension 26 mm (height 51 mm)
- **Type of protection:** IP 42
- **Electrical connection:** Jacketed cable 3 x 0.5 mm<sup>2</sup> with brass lead tips
- **Product conforming to standard:** CE
- **Approvals:** VDE
- **Curves:** Page 308



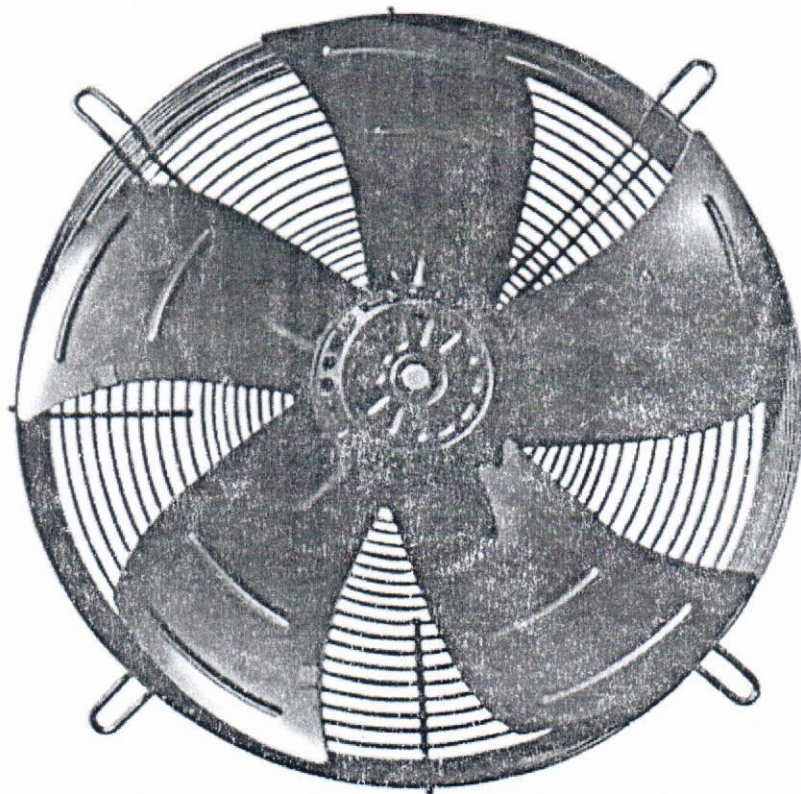
Nominal data		Combination: Motor axial impeller	Curve	Nominal voltage	Frequency	Speed/rpm	Power output	Power input	Current draw	Perm. amb. temp.	Mass	Dimensions		
Type				VAC	Hz	rpm	W	W	A	°C	kg	B	E	K
M4Q045-BD01 -01	A		(A)	1 ~ 230	50	1300	5	29	0.19	-30 to +40	0.9	76	42	15
			(B)	1 ~ 230	60	1550	5	26	0.17	-30 to +40				
M4Q045-CA01 -01	B		(C)	1 ~ 230	50	1300	7	31	0.20	-30 to +40	1.1	82	42	15
			(D)	1 ~ 230	60	1550	8	30	0.20	-30 to +40				
M4Q045-CA03 -51	C		(E)	1 ~ 230	50	1300	10	36	0.25	-30 to +40	1.2	82	42	15
			(F)	1 ~ 230	60	1550	9	34	0.22	-30 to +40				
M4Q045-CF01 -01	D		(G)	1 ~ 230	50	1300	16	60	0.42	-30 to +40	1.3	87	42	15
			(H)	1 ~ 230	60	1550	16	58	0.36	-30 to +40				
M4Q045-DA01 -01 (1)	E		(I)	1 ~ 230	50	1300	18	70	0.48	-30 to +40	1.6	93	54	15
			(J)	1 ~ 230	60	1550	18	62	0.42	-30 to +40				
M4Q045-DA05 -01 (1)	F		(K)	1 ~ 230	50	1300	23	86	0.62	-30 to +40	1.6	93	54	15
			(L)	1 ~ 230	60	1550	25	80	0.55	-30 to +40				
M4Q045-EA01 -01 (1)	G		(M)	1 ~ 230	50	1300	25	90	0.62	-30 to +40	2.0	103	59	16
			(N)	1 ~ 230	60	1550	26	80	0.55	-30 to +40				
M4Q045-EF01 -01 (1)	H		(O)	1 ~ 230	50	1300	34	110	0.75	-30 to +40	2.2	125	79	33
			(P)	1 ~ 230	60	1550	34	100	0.65	-30 to +40				

subject to alterations

(1) Foot mounting possible on A or B side



item no. 80



AC Axial Fan Size 400mm For Elgi Compressor

Comp. - 84

Pusher fan

Part No - B008107010062

SP. No  
①