

**Bid Document/ बिड दस्तावेज़**

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	02-06-2023 15:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	02-06-2023 15:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	120 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Finance
Department Name/विभाग का नाम	Department Of Economic Affairs
Organisation Name/संगठन का नाम	Security Printing And Minting Corporation Of India Limited (spmcl)
Office Name/कार्यालय का नाम	Janpath
Total Quantity/कुल मात्रा	16
Item Category/मद केटगरी	item 10 , item 20 , item 30 , item 40 , item 50 , item 60 , item 70 , item 80
BOQ Title/बीओक्यू शीर्षक	Development of Spot welding machine and cooling fans of compressors and chillers
MSE Exemption for Years Of Experience/वर्षों के अनुभव के लिए एमएसई को छूट प्राप्त है	Yes
Startup Exemption for Years Of Experience/वर्षों के अनुभव के लिए स्टार्टअप को छूट प्राप्त है	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Primary product category	item 50
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation



**EMD Detail/ईएमडी विवरण**

Required/आवश्यकता	No
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**ePBG Detail/ईपीबीजी विवरण**

Required/आवश्यकता	No
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**Splitting/विभाजन**

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

**MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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**MSE Purchase Preference/एमएसई खरीद वरीयता**

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.
4. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered



product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

5. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

## Item 10

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)**

Brand Type/ब्रांड का प्रकार	Unbranded
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## Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

## Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Vikas Kumar	461005, Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

## Item 20

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)**

Brand Type/ब्रांड का प्रकार	Unbranded
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## Technical Specifications/तकनीकी विशिष्टियाँ

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**Consignees/Reporting Officer/परिषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

<b>S.No./क्र. सं.</b>	<b>Consignee Reporting/Officer/ परिषिती/रिपोर्टिंग अधिकारी</b>	<b>Address/पता</b>	<b>Quantity/मात्रा</b>	<b>Delivery Days/डिलीवरी के दिन</b>
1	Vikas Kumar	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	3	90

### Item 30

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)**

<b>Brand Type/ब्रांड का प्रकार</b>	Unbranded
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**Technical Specifications/तकनीकी विशिष्टियाँ**

<b>Specification Document</b>	<a href="#">View File</a>
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**Consignees/Reporting Officer/परिषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**



S.No./क्र. सं.	Consignee Reporting/Officer/परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Vikas Kumar	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

#### Item 40

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Brand Type/ब्रांड का प्रकार	Unbranded
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#### Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	<a href="#">View File</a>
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#### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Vikas Kumar	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

#### Item 50

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Brand Type/ब्रांड का प्रकार	Unbranded
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#### Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	<a href="#">View File</a>
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**BOQ Detail Document**[View File](#)

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Vikas Kumar	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	1	90

**Item 60**

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Brand Type/ब्रांड का प्रकार

Unbranded

**Technical Specifications/तकनीकी विशिष्टियाँ****Specification Document**[View File](#)**BOQ Detail Document**[View File](#)

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
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S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Vikas Kumar	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

### Item 70

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Brand Type/ब्रांड का प्रकार	Unbranded
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### Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Vikas Kumar	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

### Item 80

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Brand Type/ब्रांड का प्रकार	Unbranded
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### Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	<a href="#">View File</a>
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Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer/परिचिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परिचिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Vikas Kumar	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

**Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें**

**1. Warranty**

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

**2. Financial Criteria**

**NET WORTH:** Net Worth of the OEM should be positive as per the last audited financial statement.

**3. Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

**ADDITIONAL TERMS & CONDITIONS (ATC)**

**1. Required Terms of Delivery:** F.O.R. Security Paper Mill Narmadapuram (Duly Unloaded).

**2. Destination:** Security Paper Mill, Narmadapuram (M.P.)-461005

**3. Payment Terms:** 100% on receipt and acceptance (suitability) of goods by the SPM, Narmadapuram and on production of all required documents by the supplier.



4. Bidder Should Quote Prices Inclusive of GST And All Cost Components Such As Packing & Forwarding Details, Freight & Insurance Charges up to Destination etc. on FOR Security Paper Mill, Narmadapuram (Madhya Pradesh), India basis only.

5. **Liquidated Damages (LD) Clause:** Not Applicable.

6. The terms and conditions, guidelines of SPMCIL Procurement Manual Version 2.0 will be applicable to this bid at any stage to avoid any conflict at later stage. Kindly refer General Instructions to Tenderer (GIT) and General Conditions of Contract (GCC) of SPMCIL Procurement Manual Version 2.0 for additional terms and conditions as per the links given below:

**GIT:** <https://spmcil.com/uploaddocument/GIT/new.pdf>

**GCC:** <https://spmcil.com/uploaddocument/GCC/new.pdf>

7. 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.

8. Vendor has to submit declaration in specified format (*refer Buyer added Specific ATC*) 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.

9. **GST Return:** Supplier should file the GST returns for outward supplies in time. SPM reserves the right to withhold the payment of further supplies till production of evidence of filing of Returns.

10. Bidder shall submit duly seal & signed copy of Technical Specifications.

11. No payment shall be made for the rejected samples.

1. **12.** Bidder shall submit the product catalogue.

#### 4. **Buyer Added Bid Specific ATC**

Buyer uploaded ATC document [Click here to view the file.](#)

## **Disclaimer/अस्वीकरण**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.

3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws. जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।

**---Thank You/धन्यवाद---**



### Details of items required

Item no.10 –SPEL019939

Similar Item required as per below mention detail

Suitable for use 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

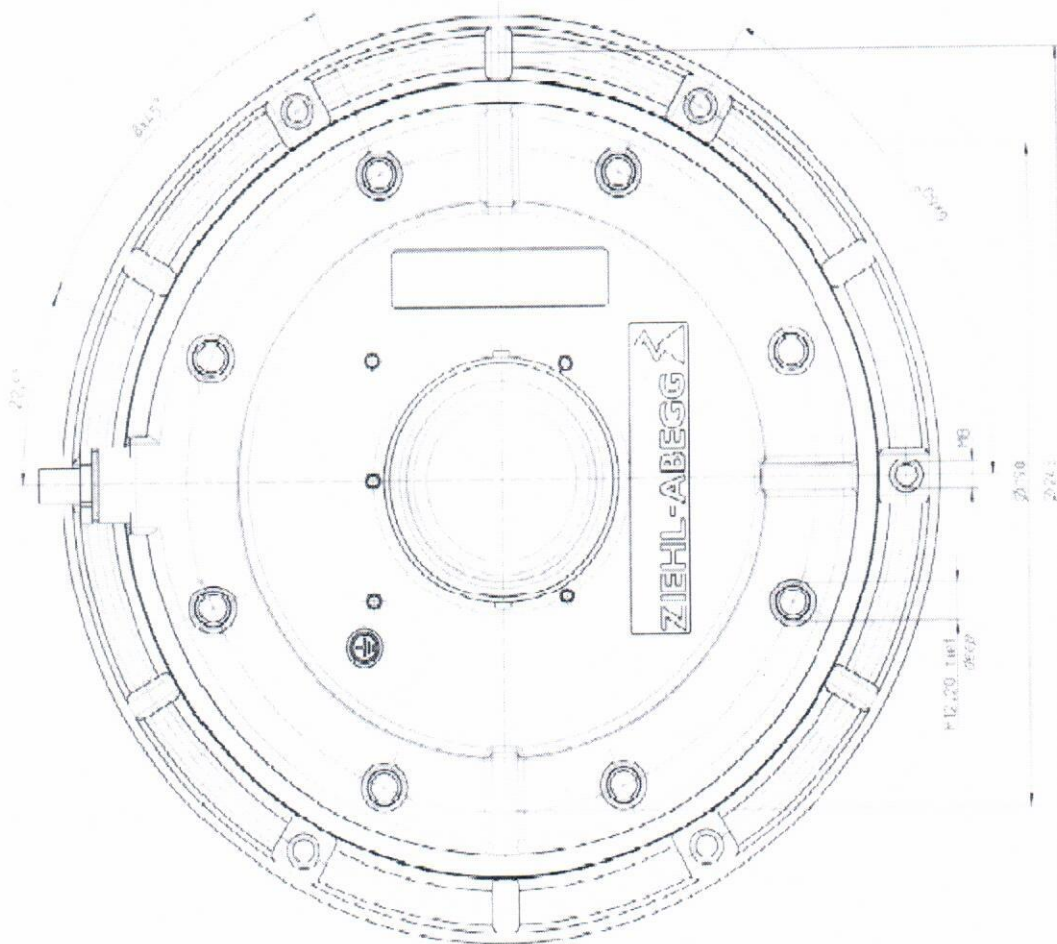
Supply cable length with fan greater than 225cm.

Rating plate: 1x fixed. Mounting position -H/Vu.

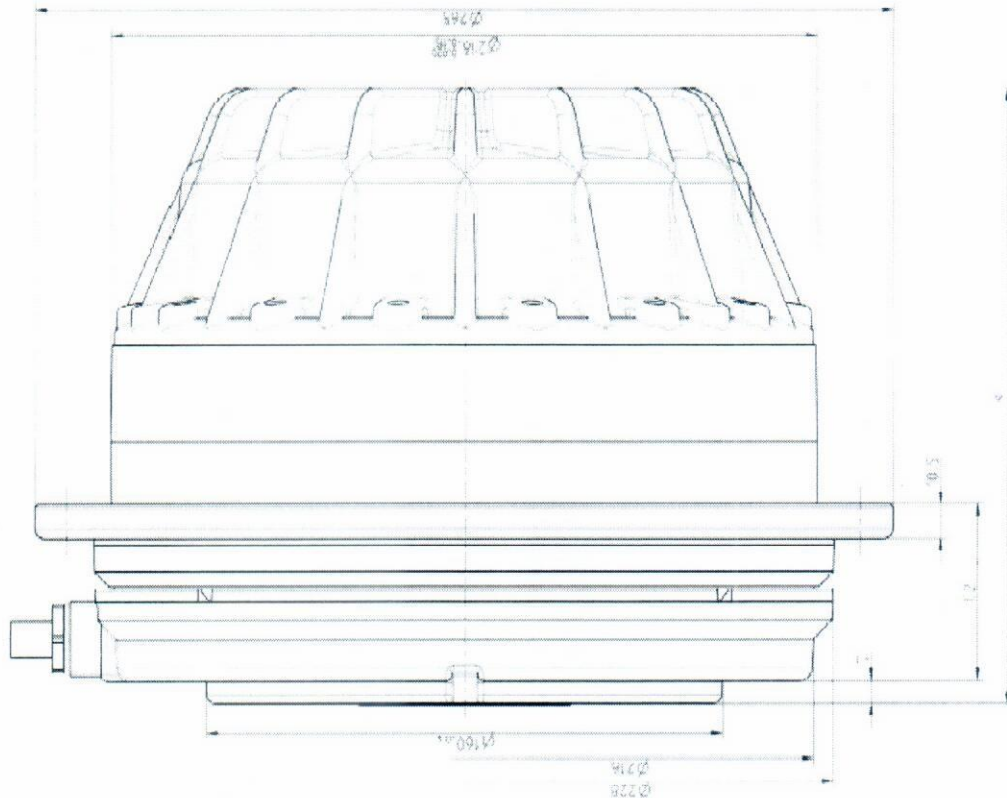
Motor protection: Without Moisture and hot climate protection.

Painting motor: unpainted.

Ball bearing with special lubrication. Ball bearing in special design.



$\text{Mg}^{2+} = 2.1 \times 10^{-4} \text{ M}$   
 $\text{Mg}^{2+} = 2.1 \times 10^{-4} \text{ M}$



Dimensions in mm

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

Detailed drawing as per Annexure-V

Item no.20 -SPEL026287

Similar item required as per below

AC axial fan Hy blade cooling fan, Installed Make :- EBM papst

Model no.A4D500-AM09-05, Equivalent Model- A4D500AJ0301

3-Delta Star, 400volt, 50/60Hz, 1.34A/0.81A

690/480W, 1350/1100 per Minute

Efficiency (n) = 33.4% (A stabic)

Detailed drawing as per Annexure-V



Item no.30 -SPEL026288

Similar item required as per mention below: detail of  
Motor for Cooling fan Q Motor- M4Q045CA0351  
Installed Make:- EBM papst  
Model no.M4Q045-CA03-51/A60  
230Volt, 50Hz, 0.25Amp, 36/10Watt, 1300RPM

Detailed drawing as per Annexure-V

Item no. 40 –SPEL026249

Similar item required as per mention below  
Impeller of Q Motor- M4Q045CA0351 (impeller for motor mentioned in item no.30 of PR)  
Installed Make:- EBM papst  
M4Q045-CA03-51/A60  
230Volt, 50Hz, 0.25Amp, 36/10Watt, 1300RPM

Detailed drawing as per Annexure-V

Item no. 50 –SPEL023655

Similar item required as mentioned below  
Spot welding Gun for ETN welding machine.  
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  
Suitable for Heavy duty industrial Uses, High duty cycle condition

Detailed drawing as per Annexure-V

Item no. 60 –SPME049267

Similar item required as mentioned below  
PUSHER FAN DIA 400- part No. B008107010002  
Suitable for use in ELGI COMPRESSOR (EN07-7)

Detailed drawing as per Annexure-V

Item no. 70 –SPEL027799

Similar item required as mentioned below:

AIR DRYER FAN MOTOR DIA 300MM FOR ELGI

Diameter of required fan is 300 MM suitable for use in ELGI compressor dryer.

Detailed drawing as per Annexure-V

Item no. 80 -SPEL027798

Similar item required as mentioned below:

COOLING FAN DIA 400M FOR ELGI compressor

179W, 230V/50hz, 0.84A, 1375 RPM, @ 84 Pa, CLF 2018/10B, fan DIA-400mm, Model  
no.YDWF74L47P4-470N-400B 6uF/450V suitable for ELGI COMPRESSOR (EN07-7)

Detailed drawing as per Annexure-V



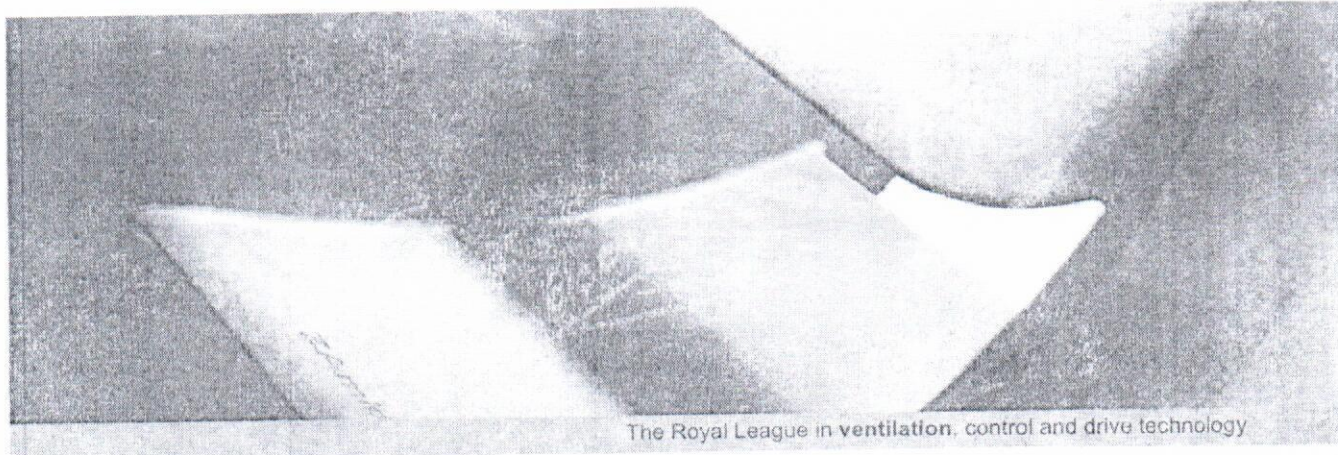
item no. 10

IN



ANNEXURE-5  
DRAWINGS

Movement by Perfection



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 Königsklassen

### Product documentation

Customer

ZIEHL-ABEGG Contact

Ke Song

Tel. +49 7940 16 90455

Project

Ke.Song@ziehl-abegg.de

ZIEHL-ABEGG Subsidiary  
India

ZIEHL-ABEGG INDIA PVT LTD.

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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

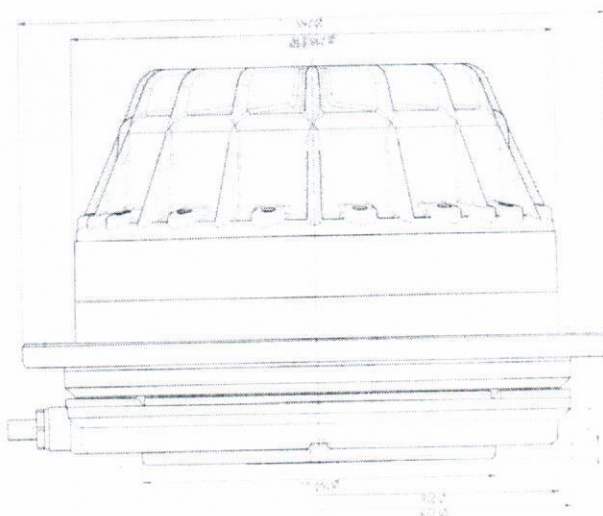
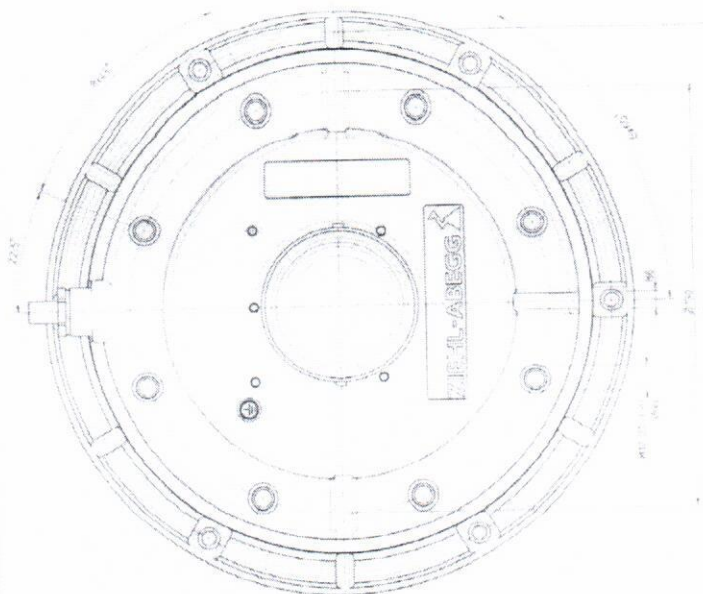
Article number  
123118

### Contents

1.	Product specification	4
----	-----------------------	---



# The Royal League



- 5  
6

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	



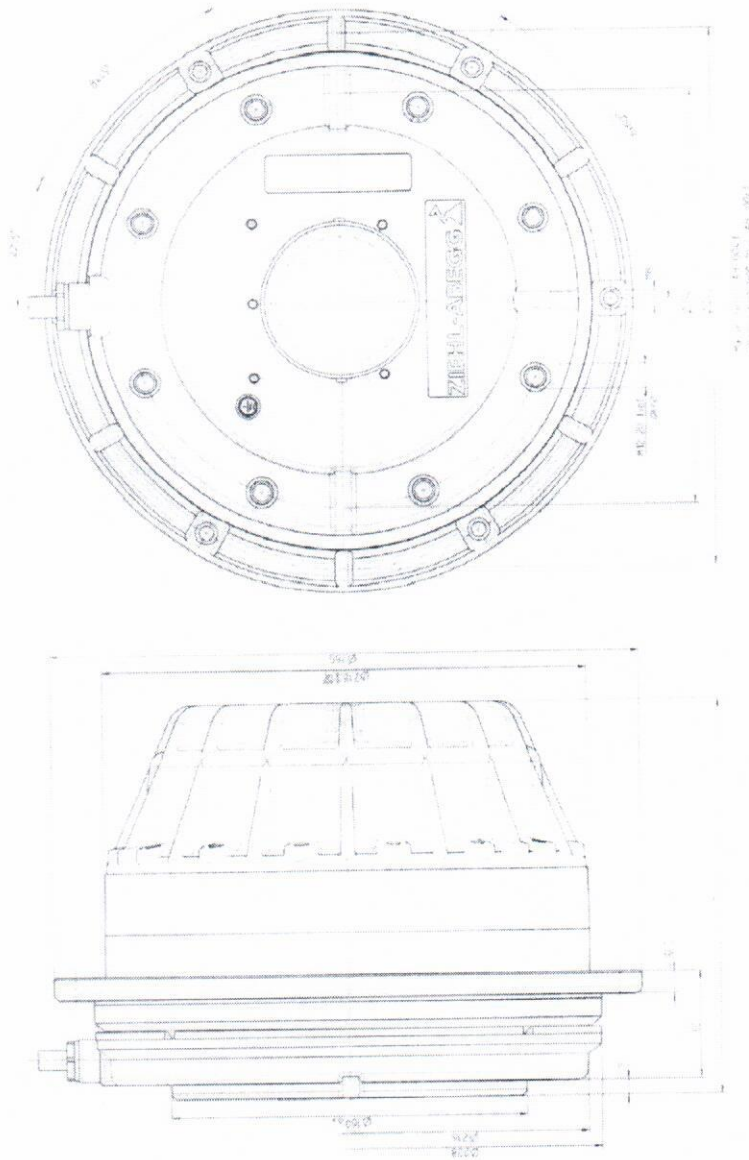


Article number  
123118

# The Royal League

## Die Königsklasse

### 2. Drawing



Dimensions in mm  
Shown drawing is just to show the dimensions of the fan.

www.ziehl-abegg.com  
07.06.2018 10:09:53

Movement by Perfection | Bewegung durch Perfektion

5 | 7

ZIEHL-ABEGG SE  
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Article number  
123118

# The Royal League

## Die Königsklasse

### 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)

*W. Angelis*

(Signature)

ZIEHL-ABEGG

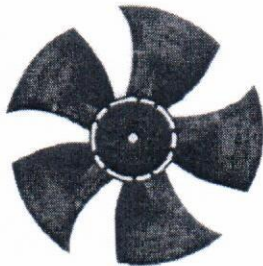


A4D500-AJ03-01

## AC axial fan - HyBlade

sickle-shaped blades (S series)

Item No: -20; SPELO 26287



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Limited partner (stock) headquarters Mulfingen

Antiquated court of registration Stuttgart HRB 189344

General partner E. Schöten Mulfingen GmbH Headquarters Mulfingen

Antiquated court of registration Stuttgart HRB 189140

### 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

ms = Max. load me = Max. efficiency fa = Free air cs = Customer specification se = Customer equipment  
Subject to change

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

		Actual	Reg. 2011		
01 Overall efficiency $\eta_{ies}$	%	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 <sup>*</sup>	1.00

Data obtained at optimum efficiency level

The  $\eta_{ies}$  data is determined using a motor-impeller combination in a standardized measurement setup

<sup>\*</sup> Specific ratio =  $1 + \frac{P_e}{P_{fs}}$  (EN 17166)

10-1598178



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A4D500-AJ03-01

## AC axial fan - HyBlade

sickle-shaped blades (S series)

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	↺
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





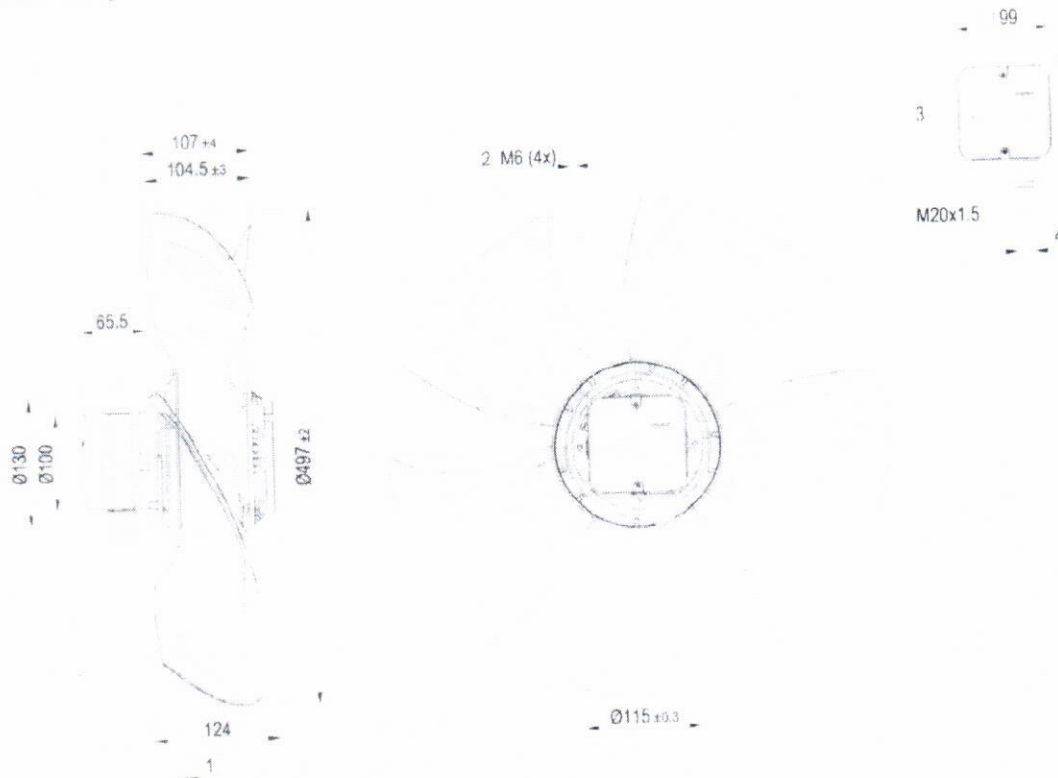
A4D500-AJ03-01

## AC axial fan - HyBlade

sickle-shaped blades (S series)

ITEM NO= 20', SPEL026287

Product drawing



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



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A4D500-AJ03-01

## AC axial fan - HyBlade

sickle-shaped blades (S series)

### Connection diagram

ITEM NO: 20; SPELO26287

U1 V1 W1 W2 U2 V2 TOP TOP

U1 V1 W1 W2 U2 V2 TOP TOP

L2 L1 L3

PE

L2 L1 L3

PE

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



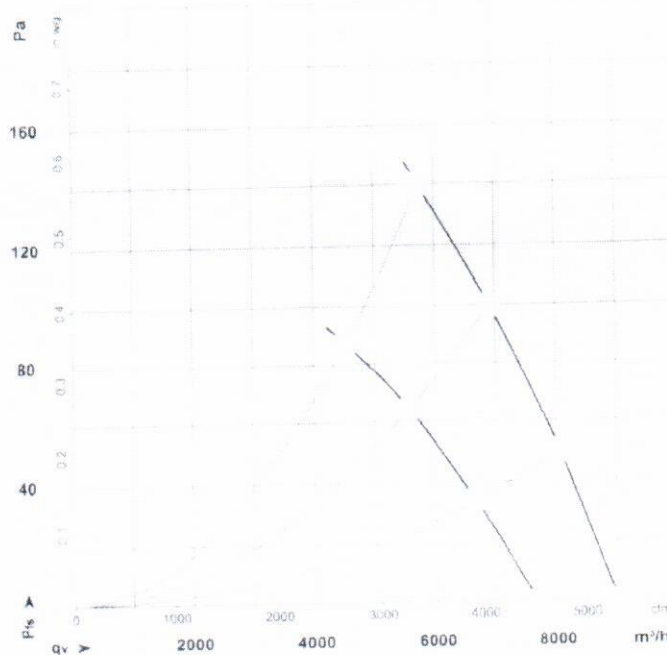
A4D500-AJ03-01

## AC axial fan - HyBlade

sickle-shaped blades (S series)

ITEM NO: 20; SPEL026287

Curves: Air performance 50 Hz

 $\rho = 1.15 \text{ kg/m}^3 \pm 2\%$ 

Measurement I.U. 10560-1.1  
Measurement I.U. 10561-0.1

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 11347, sound pressure level measured at 1 m distance from fan unit. 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>st</sub>	q <sub>v</sub>	P <sub>st</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	58	66	66	5560	69	3270	0.26
8	Y	400	50	1060	480	0.80	58	65	65	4520	67	2660	0.38

Wired: Δ: Wiring; Y: Voltage; f: Frequency; n: Speed; P<sub>e</sub>: Power consumption; I: Current; q<sub>v</sub>: Volume flow; P<sub>st</sub>: Static pressure; LpA<sub>in</sub>: Sound power level (inlet side); LwA<sub>in</sub>: Sound power level (inlet side); LwA<sub>out</sub>: Sound power level (outlet side); q<sub>v</sub>: Volume flow; P<sub>st</sub>: Static pressure.



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M4Q045-CA03-51

## AC motor

ITEM No. 30; SPELOR 6208

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Limited partnership · Headquarters Mulfingen

Amstegstraße (court of registration) Stuttgart · HRB 590347

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amstegstraße (court of registration) Stuttgart · HRB 590347

### 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

me: Max. load me: Max. efficiency fg: Free air ca: Customer specification ce: Customer equipment  
Subject to change



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M4Q045-CA03-51

AC motor

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	Capotte 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

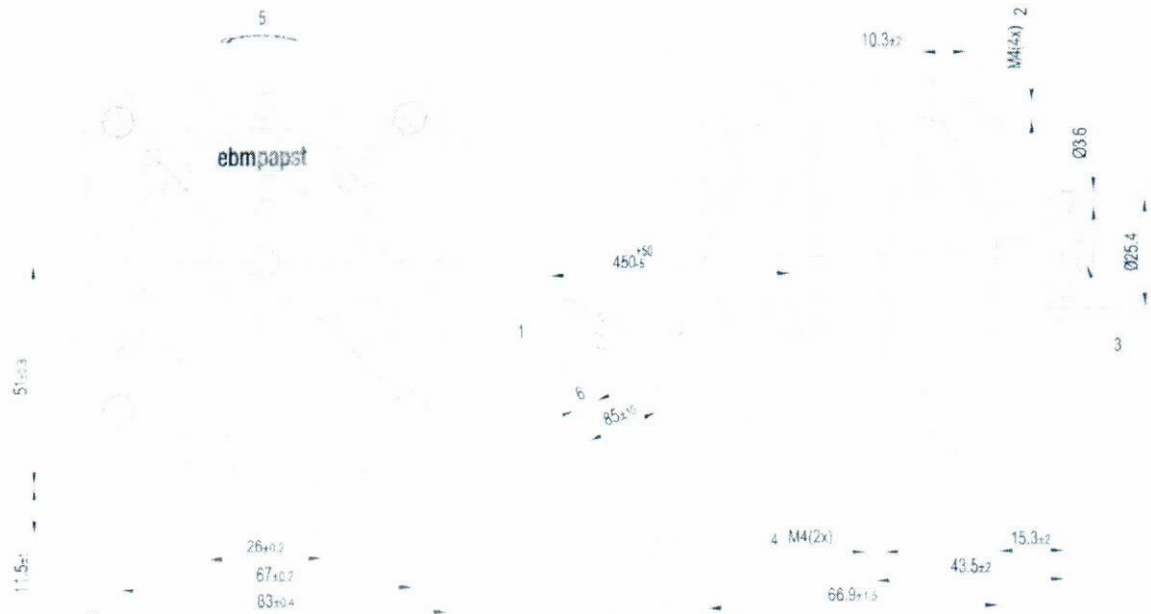


M4Q045-CA03-51

AC motor

Product drawing

ITEM NO: 30; SPELO26288



- 1 Cable PVC, 3x crimped splices
- 2 Tightening torque for nuts to fasten fan housing or guard grille: 2.3 Nm
- 3 Tightening torque for screw to fasten fan impeller: 1.4 Nm
- 4 Tightening torque for nuts to fasten mounting bracket: 2.3 Nm
- 5 Direction of rotation counterclockwise, viewed toward shaft end

#### Connection diagram

L PE N

L blue PE green/yellow N brown



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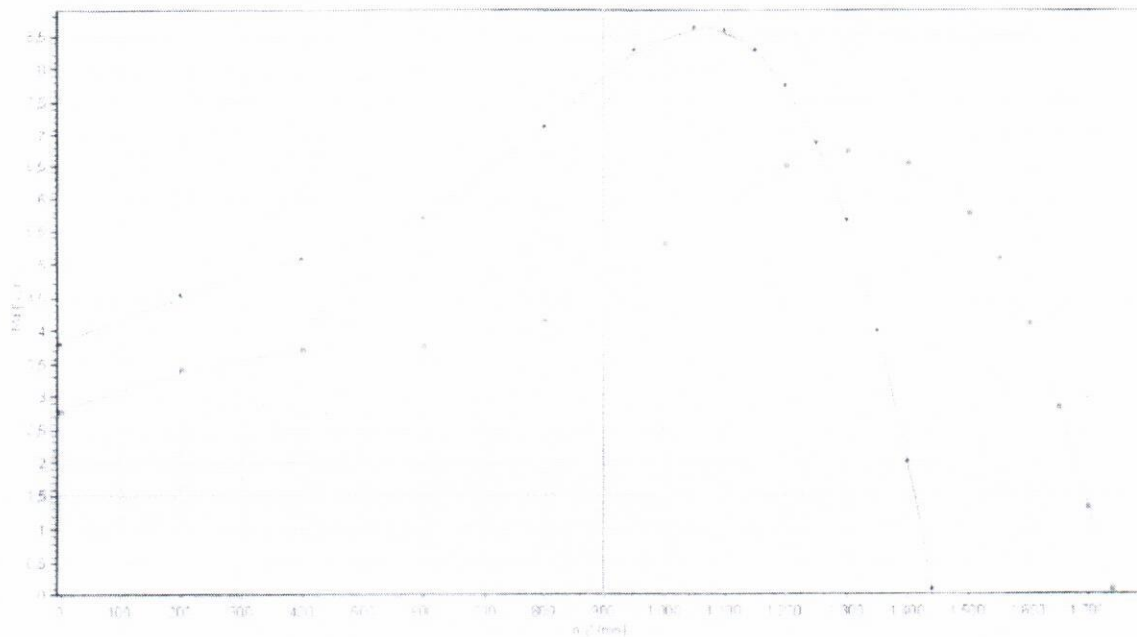


M4Q045-CA03-51

AC motor

Curves: Speed (rpm)

ITEM No: 30; SPEED 26788



ITEM NO. = SPEL026249

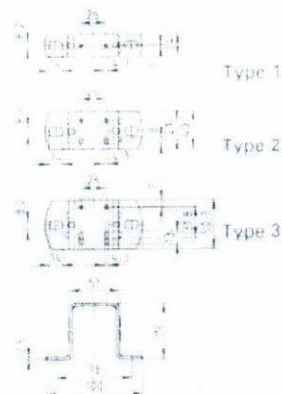
ITEM NO. = 40

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	

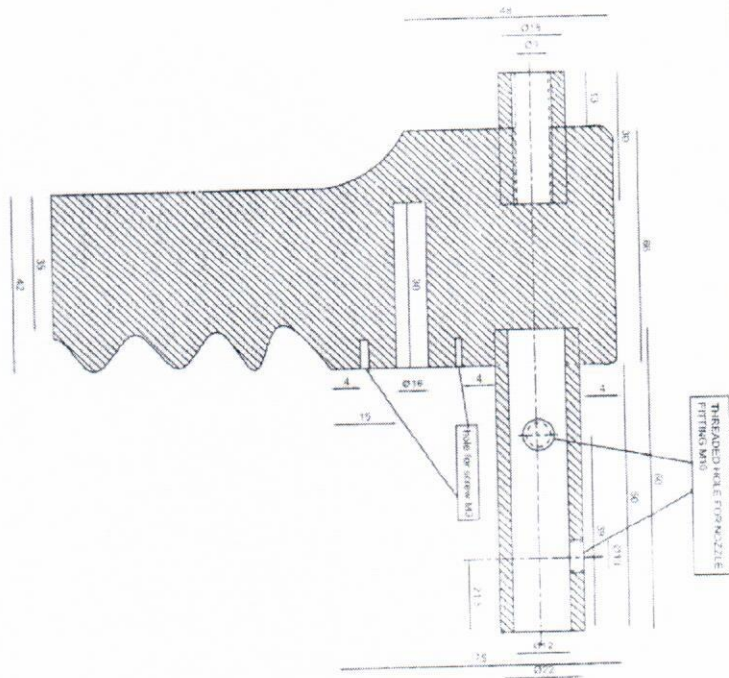
ebm papst

e-mail: sales@us.ebmpapst.com - TEL: 860-674-1515 - FAX: 860-674-8536

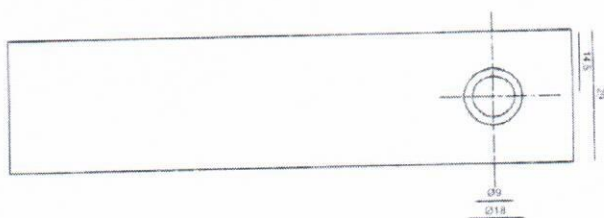
ebm-papst Inc., 100 Hyde Road, Farmington, CT 06034 USA

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162



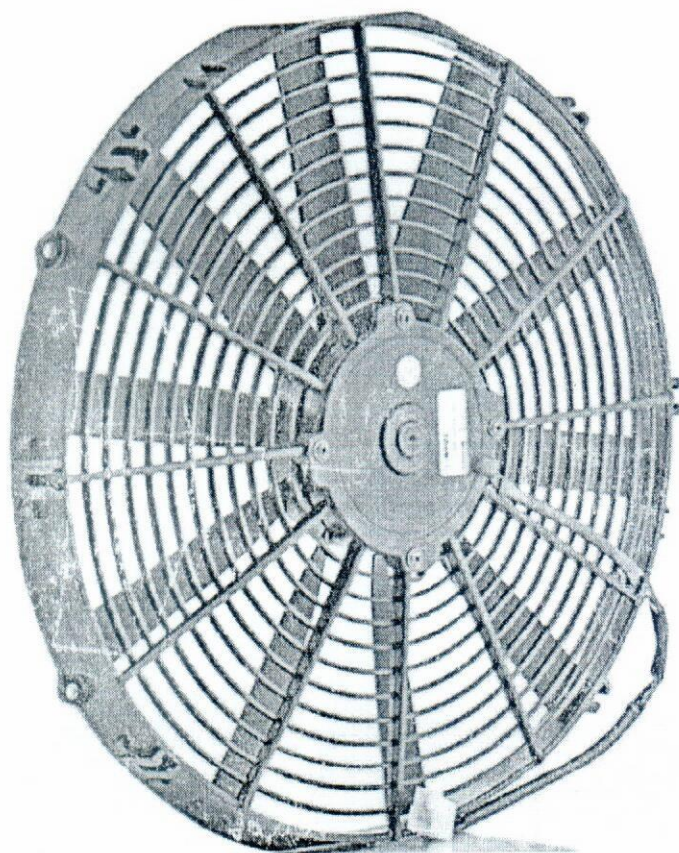
362



SECURITY PAPER MILL NARMADAPURAM		DRG. NO.	PM#5/012
GUN FOR ETN WELDING MACHINE (WIRE WORKSHOP)		PM#5	
DRG. BY	NIPPU KR.	SCALE - 1 : 1	UNIT : MM
Checked			
Approved			
DATE	28/03/2022		
		REV	

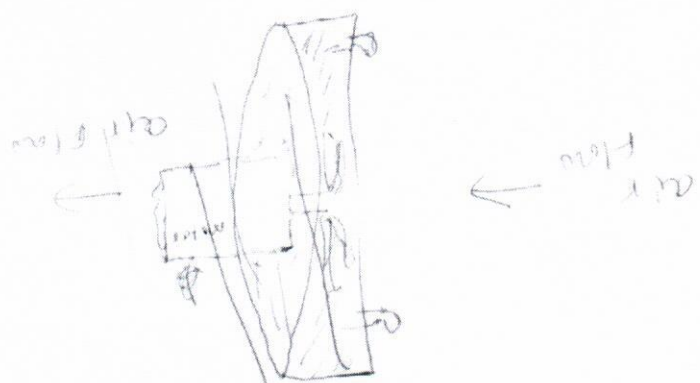


item no. 60



SR-N1: 02

2



Code - EVR C 4L3A305.Y  
MA-VIB  
Dryer form  
93/12 and, 2.2 uF, 400 V  
0.40/0.514, 1300/1400 rpm  
930V 50/60Hz

Qty. - 84

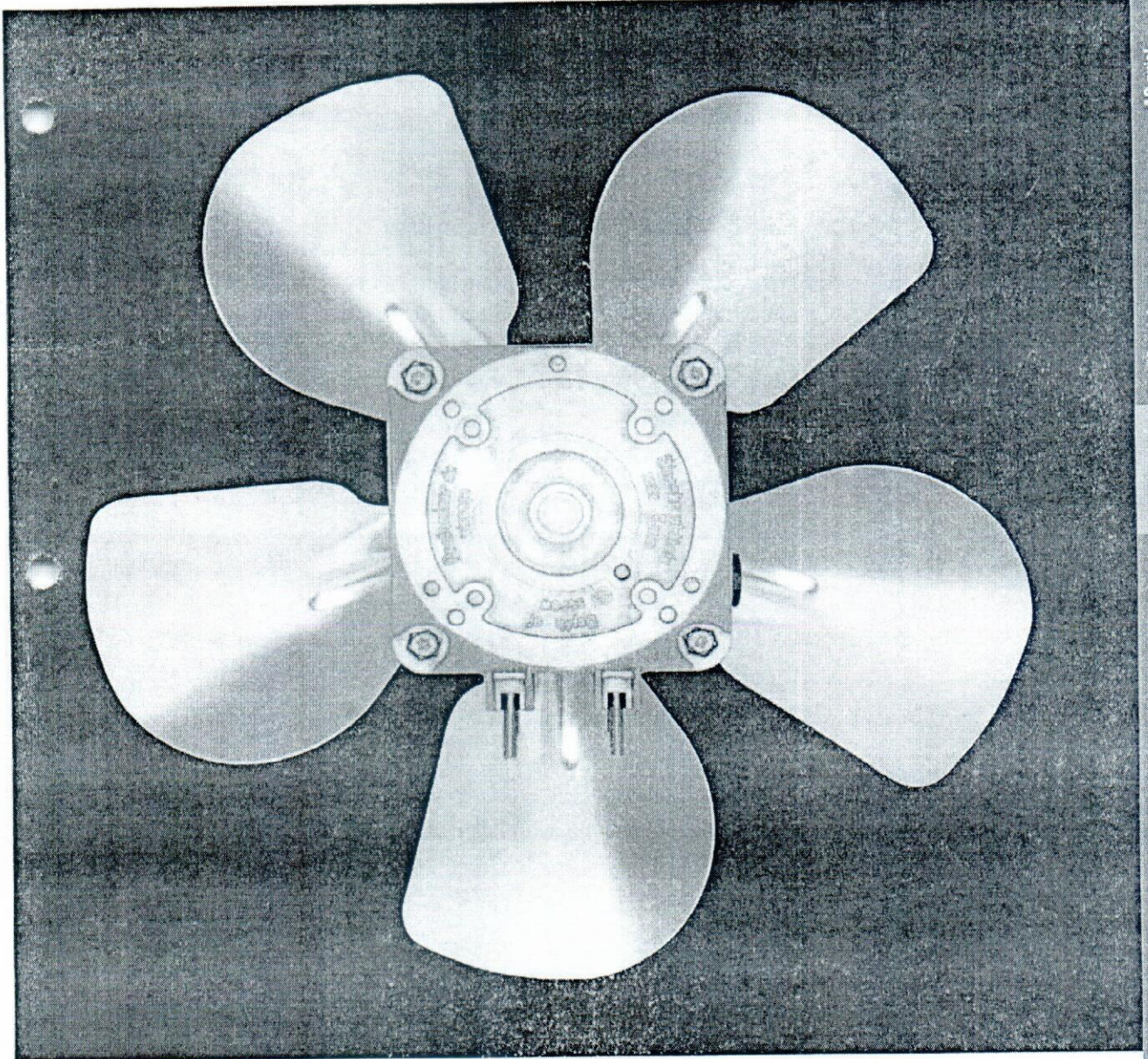


## Square shaded-pole motors (Q-motors)

Item 70

Standard design	<u>impeller dimension</u>	302
Multi-function design		304
Frigo design		305
Plug terminal design		306
UL and CSA design		307
Air performance curves		308

General  
AC axial fans  
AC axial  
AC axial  
EC axial  
EC axial fans  
EC axial  
D-motor  
ESM  
ES-SYSTEMS  
Accessories  
Technology  
Product

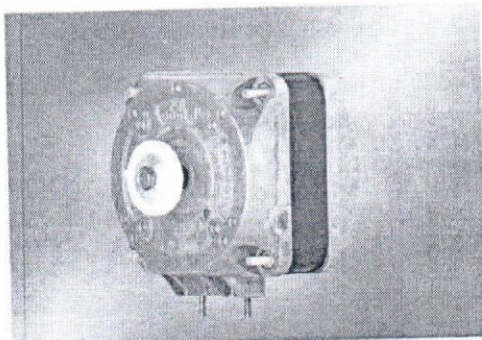




Motor dimension

# Square shaded-pole motors <sup>item 70</sup>

Standard design

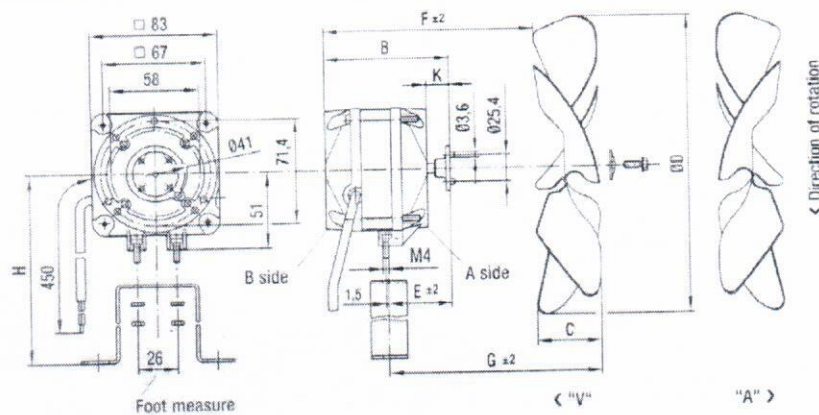


- Foot mounting: Track dimension 26 mm (height 51 mm)
- Type of protection: IP 42
- Electrical connection: Jacketed cable 3 x 0.5 mm<sup>2</sup> with brass lead tips
- Product conforming to standard: CE
- Approvals: VDE
- Curves: Page 308

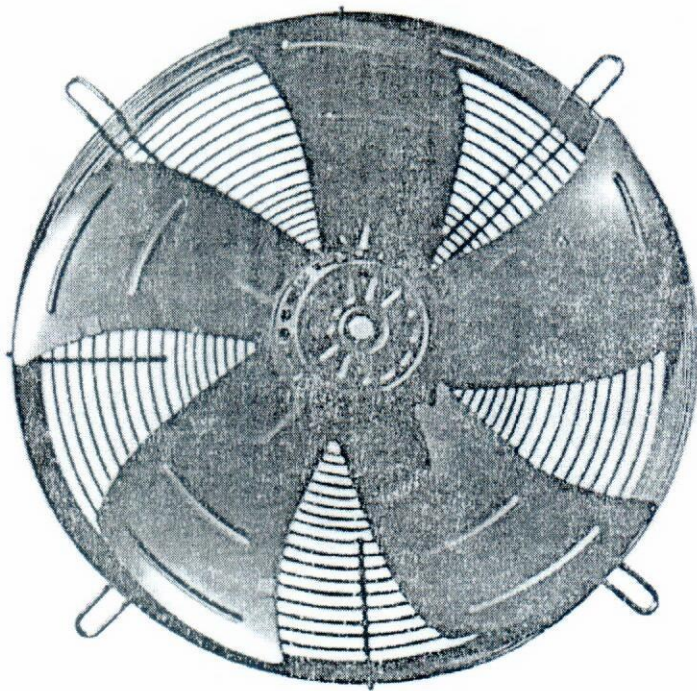
Nominal data	Combination: Motor axial impeller	Curve	Nominal voltage	Frequency	Speed/rpm	Power output	Power input	Current draw	Perm. amb. temp.	Mass	Dimensions		
Type			VAC	Hz	rpm	W	W	A	°C	kg	B	E	K
M4Q045-BD01 -01	A	(A)	1~ 230	50	1300	5	29	0.19	-30 to +40	0.9	76	42	15
		(B)	1~ 230	60	1550	5	26	0.17	-30 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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 - B008107010002

CP No  
①



**ANNEXURE-I****Declaration for Section 206AB of TDS under income tax Act, 1961**

*(to be submitted on Letter Head)*

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 Acknowledgment Number (15 digit - numeric) (Attach copy of acknowledgments)	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 Jun 2022 (or any further date as may be notified by CBDT ("Yes / No"))
2020-21					
2021-22					

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%).



**(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.....

**(To be submitted on the Letter Head)**

**DECLARATION  
(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) fulfils at 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 ..... originates in..... (Name of the country).

Signature.....

Name.....

Designation.....

Date.....

Stamp of the Organization.....

**Checklist of Documents for Technical Bid**

<b>S. No.</b>	<b>Documents Required</b>	<b>Submitted (✓)</b>
1	Weather applied for MSME (MSME certificate)	(    )
2	Certificate of Local Content as per Public Procurement (Preference to Make in India), Order 2017	(    )
3	Duly Seal & Signed : Technical Specification	(    )
4	Acceptance of all terms and condition as per Buyer Added Bid Specific ATC (Self Declaration in letter head for Acceptance of Gem Bid Seal & Sign)	(    )
5	Buyer added Specific ATC Declarations ( Buyer uploaded ATC document : Annexure-I, II & III)	(    )
6	Bidder shall submit the product catalogue	(    )