



**Tradition,
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Hidria Electrical motors



Motors can be thermally protected with self reset or hand reset thermal protectors, PTC thermistors ...)

Motor housings are available as rolled steel shell, extruded aluminium or die-casted aluminium shell. Open frame motors are available, too.

Connecting systems can be loose connection leads or motor mounted terminal box with different motor connectors.

Different accessories like capacitor, cooling fan, plastic or sheet metal motor holder, pulley are available on request.



TECHNICAL SPECIFICATION

| STATOR/ROTOR TYPE | 704 | 781 | 773 | 772 | 778 | 795 | 790 | 799 | 798 | 589 |
|--------------------------------------|--------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| ELECTRICAL DATA | | | | | | | | | | |
| Type | 1 Ph | PSC | PSC | PSC | PSC | PSC | PSC | PSC/CSR | | |
| | 3 Ph | D/Y | | D/Y | D/Y | D/Y | D/Y | D/Y | D/Y | PWS, D/Y |
| Voltage | 1 Ph-V | 115/230 | 115/230 | 115/230 | 115/230 | 115/230 | 115/230 | 115/230 | | |
| | 3 Ph-V | 230-690 | | 230-690 | 230-690 | 230-690 | 230-690 | 230-690 | 230-690 | 230-690 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60* | 50/60 | 50/60 | 50/60* | 50/60* | 50/60* |
| Phase | n | 1,3 | 1 | 1,3 | 1,3 | 1,3 | 1 | 1,3 | 3 | 3 |
| Poles | n | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 |
| Speed range | RPM | 0-3600 | 0-3600 | 0-3600 | 0-3600* | 0-3600 | 0-3600 | 0-3600* | 0-1800* | 0-1800* |
| Output Power | W | 40-250 | 200-800 | | | | | | | |
| | kW | | | 0,25-1,2 | 0,35-1,5 | 1,2-2,5 | 1,0-2,5 | 1,0-3,5 | 0,55-3,0 | 1,5-5,5 |
| Efficiency | % | 54-65 | 75-85 | 70-80 | 70-83 | 75-85 | 80-88 | 80-90 | 80-90 | 80-92 |
| Thermal Protection | Type | | | Internal | Internal | Internal | Internal | Internal | External | External |
| OUTLINE LAMINATION DIMENSIONS | | | | | | | | | | |
| Stator O.D. | mm | 90 | 101 | 110 | 117 | 128 | 139 | 164 | 160 | 190 |
| Rotor I.D. | mm | 17 | 14, 16 | 17 | 20 | 20 | 25 | 25 | 22 | 33 |
| Stack height | mm | 25-70 | 50-90 | 40-110 | 40-100 | 90-120 | 50-100 | 55-102 | 55-115 | 55-120 |

NOTES: * available for frequency drive converter (range 30 - 90 Hz)



TECHNICAL SPECIFICATION

| MOTOR TYPE | EMK 41 | EMK 42 | EMK 43 | 0704 | 0707 | 0773 | 0772 | 0778 |
|--------------------------------------|--------|--------|----------------|----------------|----------------|----------------|----------------|----------------|
| ELECTRICAL DATA | | | | | | | | |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Phase | n | single | single / three | single / three | single / three | single / three | single / three | single / three |
| Poles | n | 2 | 2-4 | 2-4 | 2 | 2 | 2 | 2 |
| Speed range | RPM | 0-3600 | 0-3600 | 0-3600 | 0-3600 | 0-3600 | 0-3600 | 0-3600 |
| Output Power | W | 20-140 | 20-150 | 20-150 | 40-250 | 200-800 | 250-1200 | 350-1500 |
| Efficiency | % | 35-60 | 35-60 | 35-60 | 35-60 | 75-85 | 70-80 | 70-83 |
| OUTLINE LAMINATION DIMENSIONS | | | | | | | | |
| Lamination diameter | mm | 70 | 78,2 | 80 | 90 | 101 | 110 | 117 |

Company Rotomatika has 35 years tradition on global activities on electrical motors. Having achieved the highest industrial standards ISO 9001:2000 and ISO 14001:1996 we are engaged in the development, manufacture and marketing of electrical motors for numerous industrial devices and systems. Basic R&D is supported by highly sophisticated and equipped team, skilled to support the highest customer demands also in electronic commutation and inverter drive motor technology. The key applications and/or industries requiring our built-in electric motors are hermetic and semi-hermetic compressors and various pumps. A considerable share of electric motors is used for special equipment in HVAC and Automotive industry. Number of models of electric motors has different design, their output power ranging from 15 W to 30 KW. Our basic electric structure of motors conforms to the IEC standard, although every motor is custom-designed. VDE, UL, CSA and other national standards are acquired on a particular customer's demand. They may belong to B or F insulation class.