

Technical features

Power supply

Three-phase voltage from 24V to 690V, 50Hz or 60Hz or single-phase 100-130V, 60Hz and 200-240V, 50Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity

2 and 4 poles.

Conformity with European Directives

ATEX 94/9/EC.

Low Voltage 2006/95/EC.

Reference Regulations

IEC/EN 61241-0, IEC/EN 61241-1, EN 60034-1.

Functioning

Continual service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information contact our technical assistance office.

Centrifugal force

Range up to 311 kgf (3.05 kN). Centrifugal force can be changed by adjusting the eccentric weights

Mechanical protection

IP 66 according to IEC 529, EN 60529.

Protection against mechanical impacts

IK 08 according to IEC 68, EN 50102.

Insulation class

Class F (155°C).

Tropicalization

Standard with vacuum encapsulation.

Ambient temperature

From -20°C to +40°C. Versions for higher or lower temperatures are available on request.

Vibrator thermal protection

On request with PTC thermistor rated heat detectors 130°C (DIN 44081-44082).

Fixing of the vibrator

In all positions and therefore without restriction. The terminal box is positioned underneath the vibrator, on the same side as the fixing base.

Lubrication

Sealed ball bearings, lubricated "for life".

Terminal box

The terminal box is positioned underneath the vibrator, on the same side as the fixing base. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor

Three-phase or single-phase asynchronous type. Insulated windings using vacuum encapsulating. The rotor is die cast aluminium.

Casing

In high-tensile aluminium alloy, with sand blasted surface.

Bearing flange

In ductile cast iron. The geometry of the flange transmits the load to the casing uniformly.

Motor shaft

In treated steel alloy (isothermic hardening) resistant to stress.

Eccentric weights

Easily adjustable from 100% down to 0.

Weight covers

Made in die cast, high strength aluminium alloy with accurate surface sand blasting.



CESI KIE



KIE



2 poles - 3000/3600 rpm

Description		SIZE	SP	I/2D Temp. class	Mechanical specifications			Electrical specifications		
					Static moment* kgmm	Centrifugal force kg	Weight kg	Max input power W	Max. current A	I _a /I _n
Code	Type				50 Hz	60 Hz	50 Hz	60 Hz	400 V 50 Hz	460 V 60 Hz
600467	M3/65-S02	00	•	120°C	6.43	6.43	64.7	93.1	0.635	0.913
600465	M3/105-S02	00	•	120°C	9.64	9.64	97.0	140	0.950	1.37
600462	M3/205-S02	00	•	120°C	21.0	21.0	211	304	2.07	2.98
600461	M3/305-S02	00	•	120°C	31.0	21.0	311	304	3.05	2.98
three-phase										
600467	M3/65-S02	00	•	120°C	6.43	6.43	64.7	93.1	0.635	0.913
600465	M3/105-S02	00	•	120°C	9.64	9.64	97.0	140	0.950	1.37
600462	M3/205-S02	00	•	120°C	21.0	21.0	211	304	2.07	2.98
600461	M3/305-S02	00	•	120°C	31.0	21.0	311	304	3.05	2.98
single-phase										
600467	M3/65-S02	00	•	120°C	6.43	6.43	4.3	4.3	110	0.56
600465	M3/105-S02	00	•	120°C	9.64	9.64	5.2	5.2	165	0.75
600462	M3/205-S02	00	•	120°C	21.0	21.0	6.0	6.0	165	0.75
600461	M3/305-S02	00	•	120°C	31.0	21.0	6.3	6.0	165	0.75
three-phase										
600467	M3/65-S02	00	•	120°C	6.43	6.43	4.3	4.3	110	0.56
600465	M3/105-S02	00	•	120°C	9.64	9.64	5.2	5.2	165	0.75
600462	M3/205-S02	00	•	120°C	21.0	21.0	6.0	6.0	165	0.75
600461	M3/305-S02	00	•	120°C	31.0	21.0	6.3	6.0	165	0.75

4 poles - 1500/1800 rpm

Description		SIZE	SP	I/2D Temp. class	Mechanical specifications			Electrical specifications		
					Static moment* kgmm	Centrifugal force kg	Weight kg	Max input power W	Max. current A	I _a /I _n
Code	Type				50 Hz	60 Hz	50 Hz	60 Hz	400 V 50 Hz	460 V 60 Hz
601514	M15/36-S02	00	•	120°C	12.0	12.0	30.2	43.5	0.30	0.43
601515	M15/81-S02	00	•	120°C	31.0	21.0	77.9	76.1	0.76	0.75
three-phase										
601514	M15/36-S02	00	•	120°C	12.0	12.0	5.4	5.4	85	0.21
601515	M15/81-S02	00	•	120°C	31.0	21.0	6.3	6.0	85	0.21
single-phase										
601514	M15/36-S02	00	•	120°C	12.0	12.0	30.2	43.5	0.30	0.43
601515	M15/81-S02	00	•	120°C	31.0	21.0	77.9	76.1	0.76	0.75

* Working moment = 2 x static moment. I_a/I_n = ratio between start-up current and maximum current.



2 poles - 3000/3600 rpm

Type	Dimensional specifications (mm)															
	Fig.	Multi-hole			Holes									Condenser (µF) 220 V 50 Hz 115 V 60 Hz		
	A	B	C	D	E	øG	N°	F	H	I	ØL	M	N	P		
M3/65-S02	M1	197								40						
M3/105-S02	M1	211								47	106	86	106	88,5		
M3/205-S02	M1	235	123	127	30 - 60 65 - 62	85 - 100 85 - 106	9	4	24	70	59					
M3/305-S02	M1	235								59						

M3/65-S02	M1	197								40							
M3/105-S02	M1	211	123	127						47	106	86	106	88,5	10	28	M20x1,5
M3/205-S02	M1	235			30 - 60 65 - 62	85 - 100 85 - 106	9	4	24	70	59						
M3/305-S02	M1	235								59							

4 poles - 1500/1800 rpm

Type	Dimensional specifications (mm)																
	Fig.	Multi-hole					Holes					Condenser (µF) 220 V 115 V 50 Hz 60 Hz					
		A	B	C	D	E	øG	N°	F	H	I						ØL
M15/36-S02	M1	235	123	127	30 - 60	85 - 100	9	4	24	70	59	106	86	106	88.5	-	M20x1,5
M15/81-S02	M1				65 - 62	85 - 106											

M15/36-S02	M1	235	123	127													
M15/81-S02	M1				30 - 60 65 - 62	85 - 100 85 - 106	9	4	24	70	59	106	106	88,5	3,15	25	M20x1,5

Fig. M1

