

Technical features

Power supply

Three-phase voltage from 24V to 480V (except M3/4), 50Hz or 60Hz or single phase 110-130V, 220-240V and 24V, 50/60Hz (in the standard single-phase version, the capacitor is already included in a case along the power supply cable); suitable for use with an inverter from 20 to 60Hz to the base frequency with constant torque load profile.

Polarity

2 poles.

Conformity with European Directives

Low Voltage 2006/95/EC, ATEX 94/9/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 extended to 65 Kgf. (638N), with centrifugal force adjustable from 0 to 100%.

Mechanical protection

IP 65 according to IEC 529, EN 60529.

Insulation class

Class F (155°C).

Tropicalization

Standard on all vibrators.

Ambient temperature

From -20°C to +40°C.

Fixing of the vibrator

In all positions and therefore without restriction.

Lubrication

Sealed ball bearings, lubricated "for life".

Electric motor

Three-phase and single-phase asynchronous type. The M3/4 model can only be supplied in the single-phase version and does not require a capacitor. Models M3/20 and M3/45 can be supplied both in three-phase and single-phase versions. The capacitor is already included in a case along the power supply cable.

Casing

In high-tensile light aluminium alloy with polished surface.

Eccentric weights

Thin plate-type, allow step-by-step adjustment through variation of the number of weights mounted or their rotation.

Weight covers

In stainless steel AISI 304.

Other features

All Micro series standard models are supplied with a power supply cable (2 metres for M3/20-S02 and M3/45-S02, 1 metre for M3/4-S02) and, in the models requiring it, a capacitor inserted into a special enclosure in-line with the cable. CSA certification can be supplied on request and the supplied product is not equipped with a capacitor (neither along the cable nor in other positions), therefore the user must install one as per Standard.

	Description				Mechanical specifications								Electrical specifications		
	Code	Type		 I13D Temp. class	rpm		Centrifugal force				Weight		Max input power W	Max. current A	
					50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		50 Hz	380/480 V 50/60 Hz
three phase	600449	M3/20-S02	□	100°C	2.0	2.0	20	29	196	284	1.97	1.97	35	0.15	
	600450	M3/45-S02	□	100°C	4.5	4.5	45	65	441	638	2.20	2.20	45	0.16	
single-phase													220/240 V 50/60 Hz	110/115 V 50/60 Hz	
	600448	M3/4-S02	□	100°C	0.4	0.4	4	6	39	59	0.92	0.92	24	0.13	0.30
	600449	M3/20-S02	□	100°C	2.0	2.0	20	29	196	284	1.97	1.97	35	0.17	0.42
600450	M3/45-S02	□	100°C	4.5	4.5	45	65	441	638	2.20	2.20	45	0.20	0.46	

□ The CSA version can be supplied on request and does not envision supply of the capacitor.

		Dimensional specifications (mm)																	
		Fori																Cable entry thread	
	Type	Fig.	A	B	C	D	D1	E	E1	F	G	øG1	N°	H	I	L	M	N	
three phase	M3/20-S02	N	157	75	110	25-40	60	92	85	9	6.5	6.5	8	38	33	69	83	74	M16x1.5
	M3/45-S02	N	172	75	110	25-40	60	92	85	9	6.5	6.5	8	38	40.5	69	83	74	M16x1.5
single-phase	M3/4-S02	N	113	66.5	90	25-40	-	75	-	9	5.5	-	4	34	25	60	59	65	M12x1.5
	M3/20-S02	N	157	75	110	25-40	60	92	85	9	6.5	6.5	8	38	33	69	83	74	M16x1.5
	M3/45-S02	N	172	75	110	25-40	60	92	85	9	6.5	6.5	8	38	40.5	69	83	74	M16x1.5

