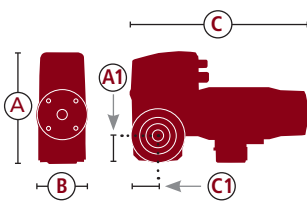


TECHNICAL DATA

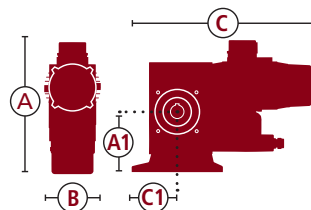
STA, MDF, MTZ and VTA Drives

Description	STA 1-11-28 HD	MDF20-22-14 HD	MTZ-FU 05-7-105 HD	VTA 14-61
Horsepower	3/4 HP	3/4 HP	1 HP	1/2 HP
Drive motor speed min -1	28	14	45 - 156	15 - 30
Maximum safety catch torque Nm	N/A	784	309	N/A
Static holding torque lb-ft	442	N/A	N/A	259
Motor output kW operating voltage V	240V/480V/60hz 3 Phase	240V/480V/60hz 3 Phase	240V/480V/60hz 3 Phase	85V - 265V 1-Phase
Control voltage V	24	24	24	24
Maximum cycles per hour *	30	30	45	20
Maximum cycles per day *	720	720	1080	450
Temperature range	-4 °F/140°F -20°C/+60°C	-4 °F/140°F -20°C/+60°C	-4 °F/140°F -20°C/+60°C	-4 °F/140°F -20°C/+60°C
Continuous sound pressure level dB (A)	< 70	< 70	< 70	< 70
Unit weight (approx.) lbs/kg	50.7 lbs/23 kg	41.9 lbs/19 kg	41.9 lbs/19 kg (with chain 19.8 lbs)	17.6 lbs/8 kg
Maximum output revolutions	20	18	13	13
Operation with CS320 FU (frequency converter) kW V	N/A	N/A	1,5 480/3~	N/A
A / height KU / KE / E / E-FR	9.65/9.65/9.65 in 245/245/245 mm	12.48 in 317 mm	11.42 in/11.42 in 290 mm/ 90 mm	10.11/10.11/11.10 in 257/257/282 mm
B / width KU / KE / E / E-FR	5.35/7.52/5.35/5.35 in 136/191/136/136 mm	5.35/7.52 in 136/91 mm	4.25 /7.4 in 108/190 mm	4.09/4.09/4.09/4.09 in 104/104/104/104 mm
C / length KU / KE / E / E-FR mm	15.59/17.24/13.23/13.23 in 396/438/336/336 mm	17.24/18.90 in 438/480 mm	18.15/21.61 in 461/549 mm	14.53/14.92/11.10/11.10 in 369/379/339/339 mm
A1	2.17 in/55 mm	5.71 in/145 mm	3.94 in/100 mm	1.79 in/45.5 mm
C1	2.17 in/55 mm	4.33 in/110 mm	3.35 in/85 mm	1.79 in/45.5 mm
Ø - Possible sleeve shaft diameter	1.0/1.25 in 25.40/ 31.75 mm	1.0/1.25 in 25.40/ 31.75 mm	1.0/1.25 in 25.40/ 31.75 mm	1.0/1.25 in 25.40/ 31.75 mm
Variable speed	No	No	Yes	Yes
Connection to the shaft	Direct	Direct	Direct	Direct
Battery backup capable	N/A	N/A	N/A	Yes

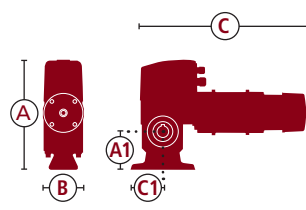
* One cycle corresponds to two door movements (opening and closing).



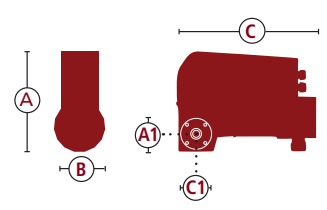
STA 1-11-28 HD



MDF20-22-14 HD



MTZ-FU 05-7-105 HD



VTA 14-61