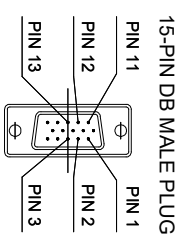
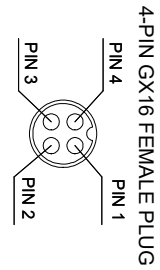
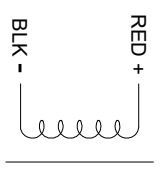


BRAKE CONNECTIONS

24V 2.0N.m



DESCRIPTION	EA+	VCC	GND	EB+	EB-	EA-
15-PIN DB MALE PLUG	1	2	3	11	12	13

STEP	A+	B+	A-	B-	CCW	CW
1	+	+	-	-	←	→
2	-	+	+	-	←	→
3	-	-	+	+	←	→
4	+	-	-	+	←	→

UNIT mm	PIN NO	BIPOLAR	LEADS
GB/T 1804-M EQV/ISO 2768-1 CLASS M:	1	A+	--
<=6 ±0.1	2	A-	--
>6-30 ±0.2	3	B+	--
>30-120 ±0.3	4	B-	--
>120-400 ±0.5	4	B-	--



SPECIFICATION	VALUE
AMPS/PHASE	4.0
RESISTANCE/PHASE(Ohms)@25°C	0.45±10%
INDUCTANCE/PHASE(mH)@1KHz	1.40±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	1.20 [10.63]
GEAR RATIO	20
EFFICIENCY	75%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD(°)	1.6
MAX.PERMISIBLE TORQUE(Nm)	20.0
MOMENT PERMISSIBLE TORQUE(Nm)	40.0
SHAFT MAXIMUM AXIAL LOAD(N)	100
SHAFT MAXIMUM RADIAL LOAD(N)	250
AMBIENT TEMPERATURE	0°C~50°C[32°F~122°F]
INSULATION CLASS	B 130°C[266°F]
TEMPERATURE RISE	MAX.80°C

OSMTEC®

Stepper Motor Specialists

mm	DRN	LDJ
UNITS	1.7.2026	
2:3	APVD	ZPJ
SCALE	SIGNATURE	DATE

PLANETARY GEARBOX

23E1KBK20-12-HG20