

1			2			3			
TOLERANCES UNLESS OTHERWISE STATED			FILLET RADIUS AND CHAMFER HEIGHT			SURFACE FINISH		DIMENSION	TOLERANCE
UP TO 6	OVER 6 UP TO 30	OVER 30 UP TO 120	UP TO 3	OVER 3 UP TO 6	OVER 6 UP TO 30	$\sqrt{R_z}$ -		-	-
±0.1	±0.2	±0.3	±0.2	±0.5	±1			-	-

SUPPLIER MUST CONFORM TO QAR-200 INCLUDING QAR-200 SPECIAL QUALITY REQUIREMENTS (SQR).

 CHARACTERISTICS IDENTIFIED BY THIS SYMBOL HAVE SPECIAL QUALITY REQUIREMENTS AS IDENTIFIED BY THE ACCOMPANYING QAR-200 SPECIAL QUALITY REQUIREMENT DOCUMENT. NOT APPLICABLE

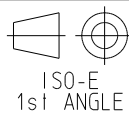
 PARAMETERS IDENTIFIED BY THIS SYMBOL ARE SPECIAL CHARACTERISTICS.

NOTES:

4.0 MOTOR CONSTANTS AND SERVO PARAMETERS (REFERENCE)

4.1	RATED VOLTAGE	Vt	24	VDC
4.2	TORQUE CONSTANT	Kt	2,4	Ncm/A
4.3	VOLTAGE CONSTANT	Ke	2,50	V/KRPM (REF)
4.4	SPEED REGULATION CONSTANT	Rm	7540	RPM/Ncm (REF)
4.5	MOTOR CONSTANT	Km	0,35	Ncm/SqrW (REF)
4.6	STALL TORQUE	Ts	1,2	Ncm (REF)
4.7	STALL CURRENT	Is	0,5	A (REF)
4.8	TERMINAL RESISTANCE	Rt	45,8	OHMS
4.9	DAMPING CONSTANT (INFINITE SOURCE)	Fi	0,002	Ncm/KRPM
4.10	DAMPING CONSTANT (ZERO SOURCE)	Fo	0,13	Ncm/KRPM
4.11	DYNAMIC FRICTION TORQUE	Tfd	0,057	Ncm

-	202
PI	KN



ISO-E
1st ANGLE

MATERIAL	-	INTERNAL	B	X
MATERIAL NUMBER	-		X	X



BUEHLER MOTOR
INC.
CARY, NC 27512

DATE	29MAR01	SUBSTITUTED FOR	
DRAWN	SALUJA		-
CHECKED	RS	REPLACED BY	
APPROVAL			-

TITLE MOTOR SPECIFICATION A4

DRAWING NUMBER 7.13.018.KN SCALE N/A SHEET 2 OF 2

1	RELEASED PER ECO 4113-31	29MAR01	RS	EXPERIMENTAL NUMBER	EX.XXX.XXXXX	-	-	-	-	-	-	-
DI	CHANGE ONLY WITH CAD	DATE	NAME	USE	16.11	-	-	-	-	-	-	-

30mm

Für diese Zeichnung behalten wir uns alle Rechte nach DIN 34 for.

DRAWING CREATED WITH ISO STANDARDS

THIS DOCUMENT AND ALL INFORMATION THEREIN CONTAINED ARE OUR EXCLUSIVE PROPERTY. THE RECIPIENT AGREES NOT TO REPRODUCE, COPY, USE OR TRANSMIT THIS DOCUMENT AND/OR THE INFORMATION THEREIN CONTAINED FOR ANY PURPOSE, EXCEPT WITH OUR WRITTEN PERMISSION.

1			2			3			
TOLERANCES UNLESS OTHERWISE STATED			FILLET RADIUS AND CHAMFER HEIGHT			SURFACE FINISH		DIMENSION	TOLERANCE
UP TO 6	OVER 6 UP TO 30	OVER 30 UP TO 120	UP TO 3	OVER 3 UP TO 6	OVER 6 UP TO 30	$\sqrt{R_z}$ -		-	-
±0.1	±0.2	±0.3	±0.2	±0.5	±1			-	-

SUPPLIER MUST CONFORM TO QAR-200 INCLUDING QAR-200 SPECIAL QUALITY REQUIREMENTS (SQR).

CHARACTERISTICS IDENTIFIED BY THIS SYMBOL HAVE SPECIAL QUALITY REQUIREMENTS AS IDENTIFIED BY THE ACCOMPANYING QAR-200 SPECIAL QUALITY REQUIREMENT DOCUMENT. NOT APPLICABLE

PARAMETERS IDENTIFIED BY THIS SYMBOL ARE SPECIAL CHARACTERISTICS.

NOTES:

1.0 GENERAL

THE FOLLOWING VALUES ARE VALID AT AMBIENT TEMPERATURES OF 20 TO 25° C. THE MEASUREMENTS SHALL BE DONE FAST ENOUGH TO EXCLUDE ANY HEATING EFFECTS. THE MEASUREMENTS SHALL BE TAKEN WITH MOTOR SHAFT IN A HORIZONTAL POSITION.

2.0 MECHANICAL DIMENSIONS

- 2.1 DIMENSIONS ACCORDING TO DRAWING 7.27.001.202
- 2.2 DIRECTION OF ROTATION ACCORDING TO DRAWING 7.27.001.202
- 2.3 AXIAL AND RADIAL PLAY ACCORDING TO DRAWING 7.27.001.202
- 2.4 MOTOR SURFACE AND SHAFT TO BE FREE OF CORROSION.

3.0 MOTOR CHARACTERISTICS

3.1 LOAD CONDITION

Vt = 24.0 VDC
 No = 9200 RPM ± 12%
 Io = 50 ma MAX

3.2 LOAD CONDITION

Vt = 24.0 VDC
 TL = 0.70 Ncm
 NL = 3400 RPM ± 30%
 IL = 370 mA MAX

3.3 HI-POT TEST

MOTOR MUST WITHSTAND 150 VRMS BETWEEN MOTOR HOUSING AND ANY TERMINAL FOR 1 SECOND WITHOUT BREAKDOWN.

-	202
PI	KN

THIS DOCUMENT AND ALL INFORMATION THEREIN CONTAINED ARE OUR EXCLUSIVE PROPERTY. THE RECIPIENT AGREES NOT TO REPRODUCE, COPY, USE OR TRANSMIT THIS DOCUMENT AND/OR THE INFORMATION THEREIN CONTAINED FOR ANY PURPOSE, EXCEPT WITH OUR WRITTEN PERMISSION.

DRAWING CREATED WITH ISO STANDARDS

Für diese Zeichnung behalten wir uns alle Rechte nach DIN 34 for.

30mm

								MATERIAL		INTERNAL	
						ISO-E 1st ANGLE		-		B X	
								MATERIAL NUMBER		X X	
								BUEHLER MOTOR INC.		DATE 29MAR01	
						CARY, NC 27512		DRAWN SALUJA		SUBSTITUTED FOR	
								CHECKED RS		REPLACED BY	
								APPROVAL		-	
								TITLE		A4	
								DRAWING NUMBER		SCALE N/A	
								7.13.018.KN		SHEET 1 OF 2	
1		RELEASED PER ECO 4113-31		29MAR01		RS		EXPERIMENTAL NUMBER		EX.XXX.XXXXX	
DI		CHANGE ONLY WITH CAD		DATE		NAME		USE		16.11	