DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14562090

Frame	: 213/5TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation[1]	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 72.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0753 kgm²
Design	: B		

Output [HP]		2	2	2	2
Poles		8	8	8	8
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		6.78/3.39	3.91	3.80	3.78
L. R. Amperes [A]		46.8/23.4	23.5	24.7	27.2
LRC [A]		6.9x(Code L)	6.0x(Code J)	6.5x(Code K)	7.2x(Code L)
No load current [A]		4.60/2.30	2.30	2.42	2.54
Rated speed [RPM]		875	715	720	725
Slip [%]		2.78	4.67	4.00	3.33
Rated torque [kgfm]		1.66	2.03	2.02	2.00
Locked rotor torque [%]		220	170	210	240
Breakdown torque [%]		290	210	250	280
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		70s (cold) 39s (hot)	70s (cold) 39s (hot)	70s (cold) 39s (hot)	70s (cold) 39s (hot)
Noise level[2]		52.0 dB(A)	48.0 dB(A)	48.0 dB(A)	48.0 dB(A)
Efficiency (%)	25%				
	50%	82.5	81.5	81.5	81.5
	75%	84.0	82.0	82.5	82.5
	100%	85.5	82.0	82.5	82.5
Power Factor	25%				
	50%	0.45	0.52	0.49	0.46
	75%	0.55	0.62	0.59	0.56
	100%	0.65	0.71	0.69	0.67

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	16.1	20.8	20.1	20.1
	P2 (0,5;1,0)	13.5	17.5	16.9	16.9
	P3 (0,25;1,0)	13.2	17.1	16.5	16.5
	P4 (0,9;0,5)	9.6	12.4	12.0	12.0
	P5 (0,5;0,5)	7.0	9.0	8.7	8.7
	P6 (0,5;0,25)	5.6	7.2	7.0	7.0
	P7 (0,25;0,25)	4.4	5.7	5.5	5.5

		Drive end	Non drive end
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 67 kgf

Max. compression : 139 kgf

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight subject to changes after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		1 / 6	

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 7.49A SF 1.15 SFA 8.62A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		2 / 6	

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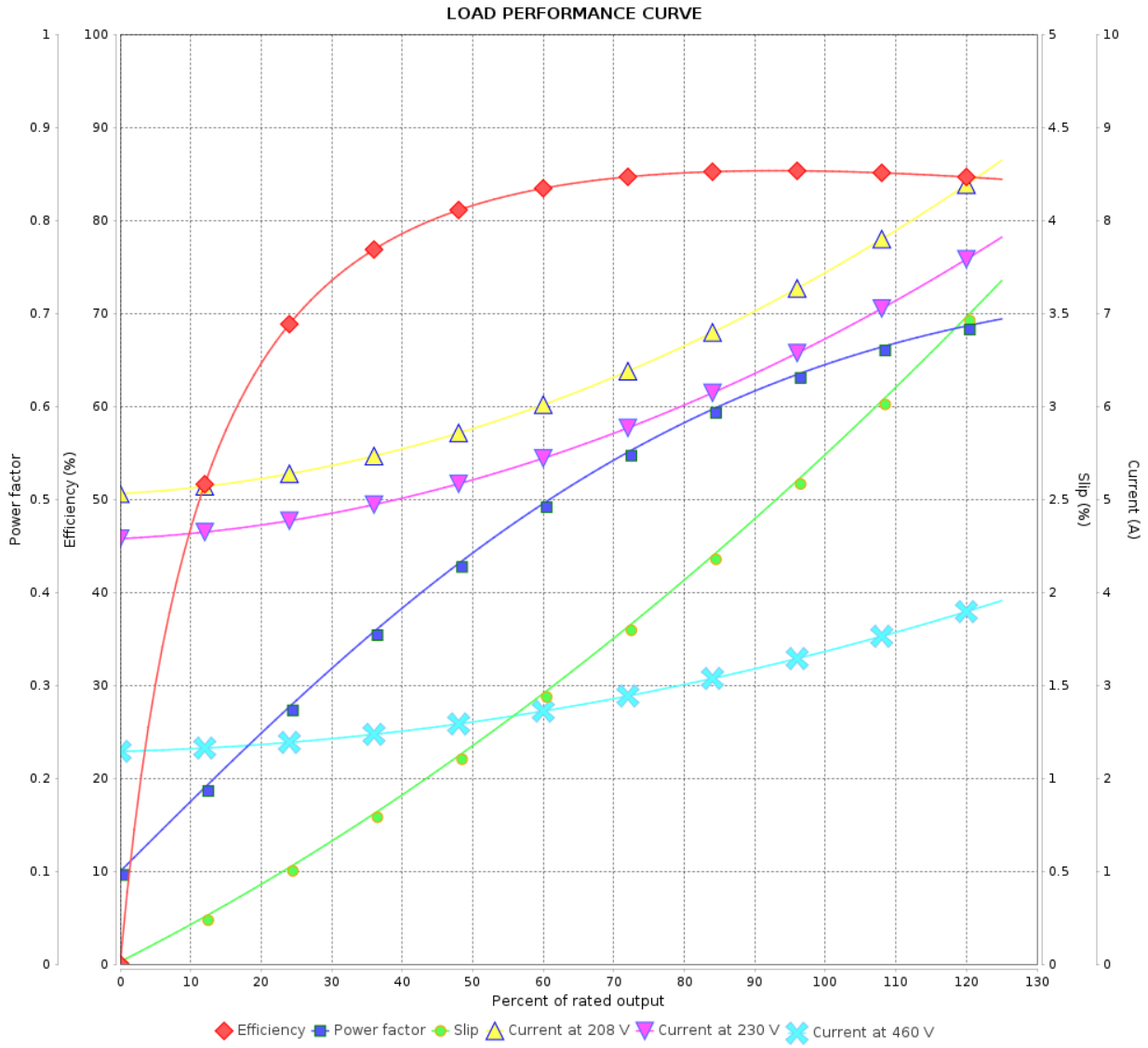
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14562090



Performance	: 230/460 V 60 Hz 8P		
Rated current	: 6.78/3.39 A	Moment of inertia (J)	: 0.0753 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 1.66 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 875 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		3 / 6	

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Three Phase Induction Motor - Squirrel Cage

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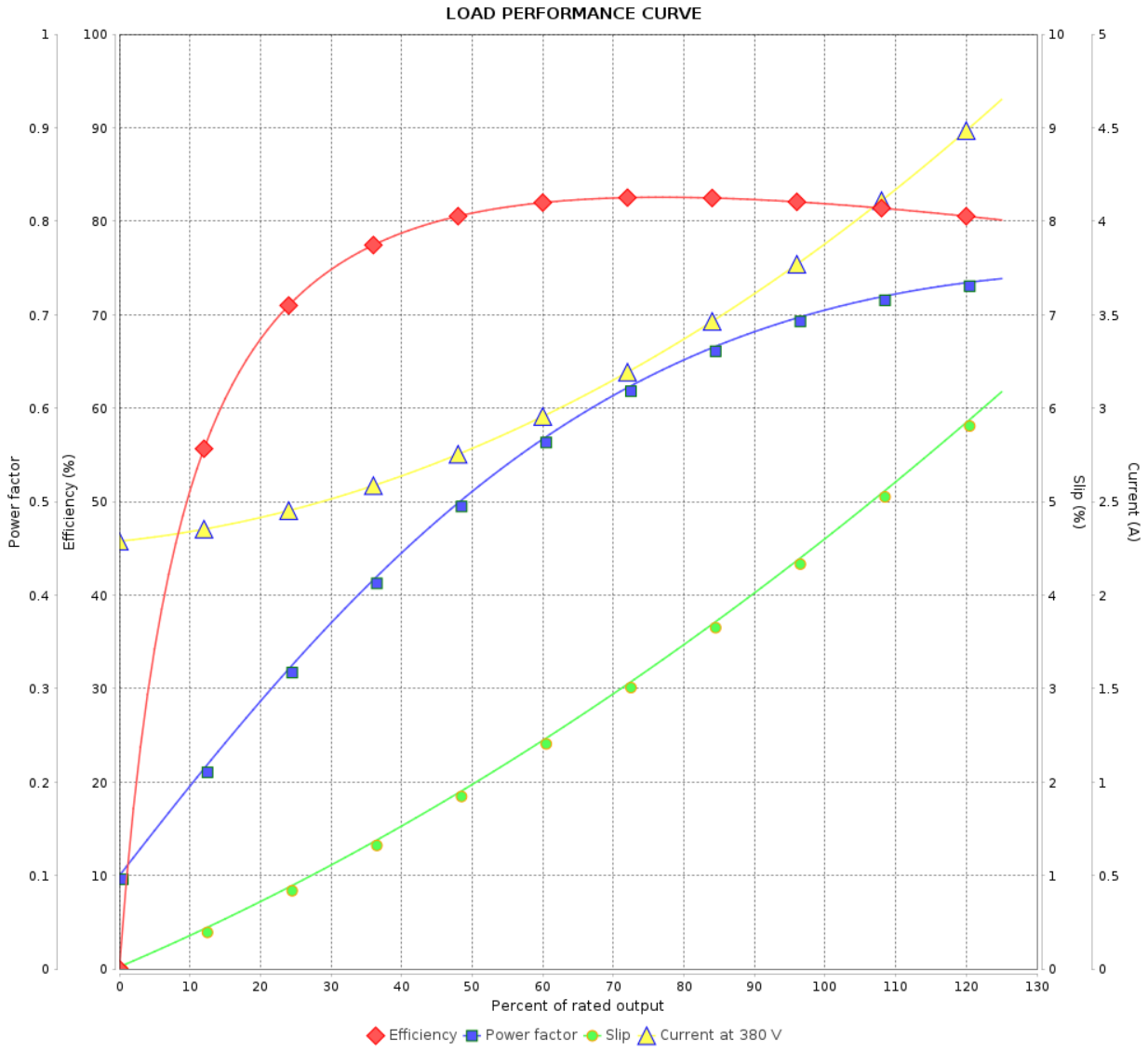
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	14562090



Performance	: 380 V 50 Hz 8P IE3

Rated current	: 3.91 A	Moment of inertia (J)	: 0.0753 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 2.03 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 715 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		4 / 6	

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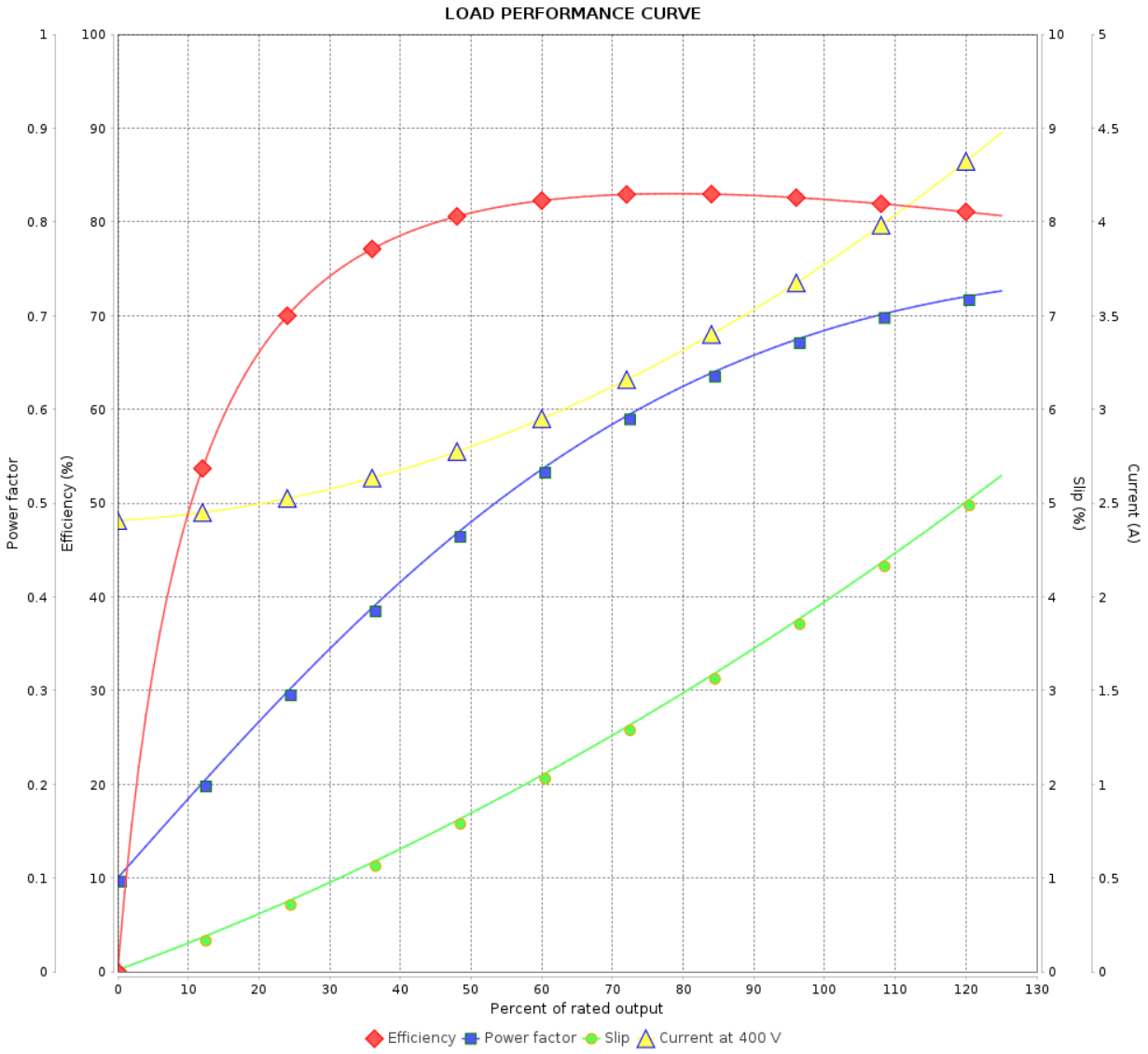

Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 3.80 A	Moment of inertia (J)	: 0.0753 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.02 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 720 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		5 / 6	

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Three Phase Induction Motor - Squirrel Cage

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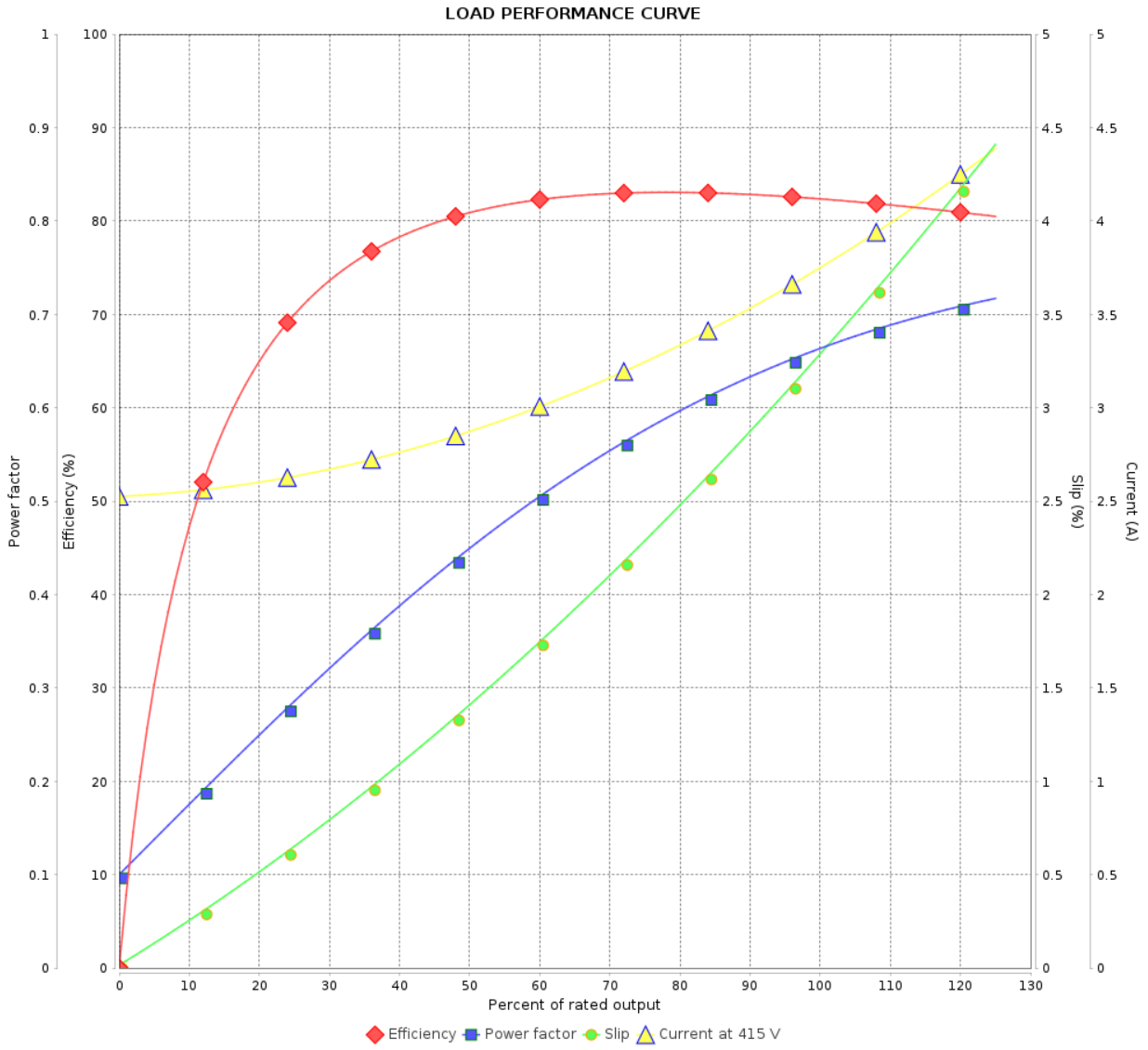
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	14562090



Performance	: 415 V 50 Hz 8P IE3

Rated current	: 3.78 A	Moment of inertia (J)	: 0.0753 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 725 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		6 / 6	

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