

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: W22 Tru-Metric IE3 Three-Phase	Product code :	16572113	
Frame	: 200L	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B35L(E)		
Duty cycle	: S1	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: VFD		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 258 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.3468 kgm ²		
Design	: N				
Output [HP]	40	40	40		
Poles	4	4	4		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	380	415		
Rated current [A]	109-98.8/49.4	58.0	55.7		
L. R. Amperes [A]	1005-909/454	423	457		
LRC [A]	9.2	7.3	8.2		
No load current [A]	44.0-51.0/25.5	24.5	27.0		
Rated speed [RPM]	1785	1480	1485		
Slip [%]	0.83	1.33	1.00		
Rated torque [kgfm]	16.3	19.6	19.5		
Locked rotor torque [%]	340	250	310		
Breakdown torque [%]	350	280	310		
Service factor	1.25	1.25	1.25		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	23s (cold) 13s (hot)	19s (cold) 11s (hot)	16s (cold) 9s (hot)		
Noise level ²	66.0 dB(A)	63.0 dB(A)	63.0 dB(A)		
Efficiency (%)	25%	0.000	0.000	0.000	
	50%	92.6	93.4	92.8	
	75%	93.7	93.7	93.3	
	100%	94.1	93.6	93.6	
Power Factor	25%	0.00	0.00	0.00	
	50%	0.63	0.69	0.60	
	75%	0.75	0.79	0.72	
	100%	0.81	0.84	0.80	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	6.0	6.6	6.6	
	P2 (0,5;1,0)	4.7	5.1	5.1	
	P3 (0,25;1,0)	4.3	4.6	4.6	
	P4 (0,9;0,5)	3.5	3.9	3.9	
	P5 (0,5;0,5)	2.3	2.5	2.5	
	P6 (0,5;0,25)	1.8	1.9	1.9	
	P7 (0,25;0,25)	1.2	1.3	1.3	
Bearing type	: Drive end : 6312 C3	Non drive end : 6212 C3	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction	: 633 kgf	
Lubrication interval	: 20000 h	20000 h	Max. compression	: 891 kgf	
Lubricant amount	: 21 g	13 g			
Lubricant type	: Mobil Polyrex EM				
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. (4) At 100% of full load.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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Customer : _____

Notes

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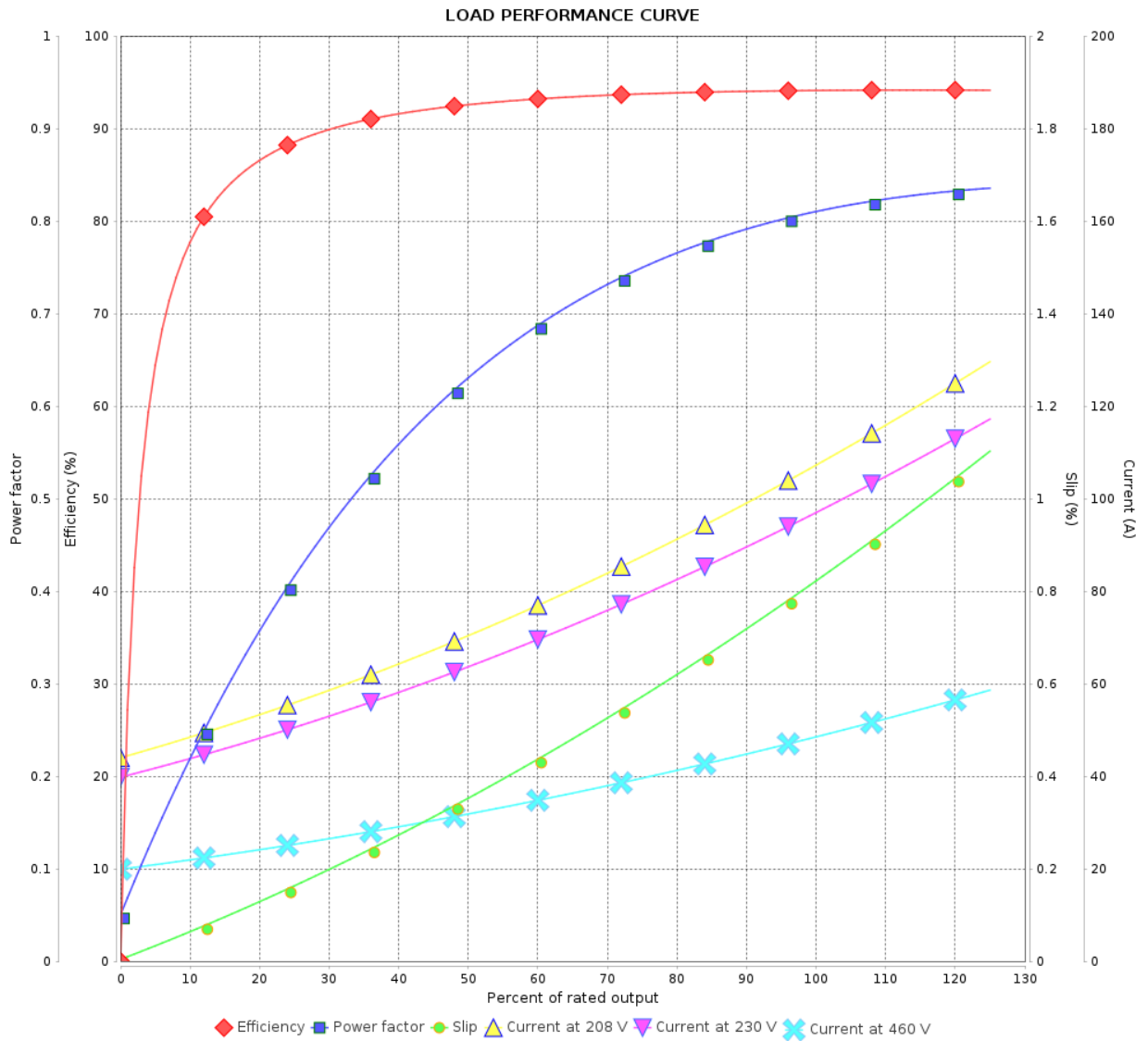
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113



Performance : 208-230/460 V 60 Hz 4P

Rated current : 109-98.8/49.4 A
 LRC : 9.2
 Rated torque : 16.3 kgfm
 Locked rotor torque : 340 %
 Breakdown torque : 350 %
 Rated speed : 1785 rpm

Moment of inertia (J) : 0.3468 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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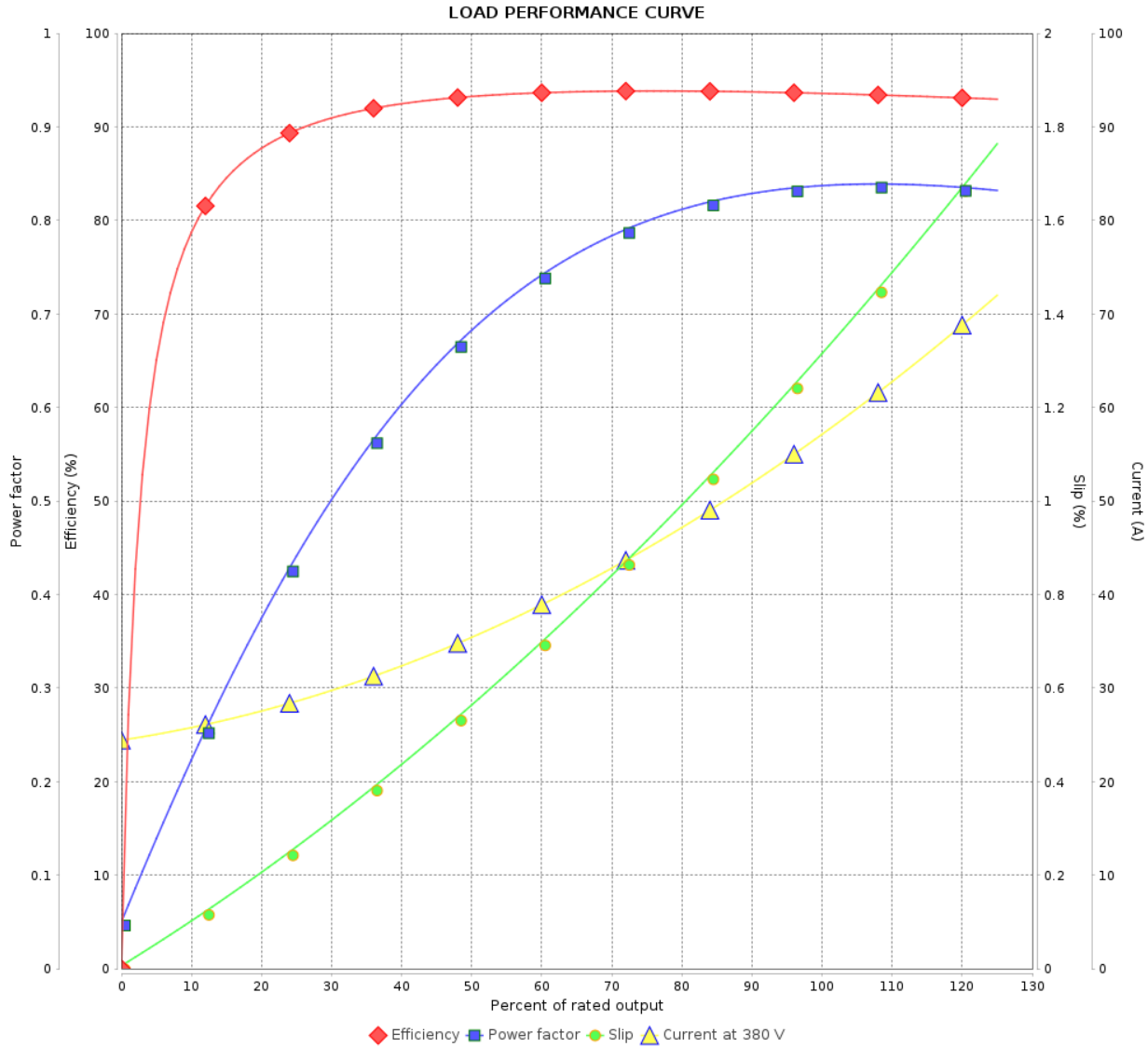
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113



Performance : 380 V 50 Hz 4P

Rated current	: 58.0 A	Moment of inertia (J)	: 0.3468 kgm ²
LRC	: 7.3	Duty cycle	: S1
Rated torque	: 19.6 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: N

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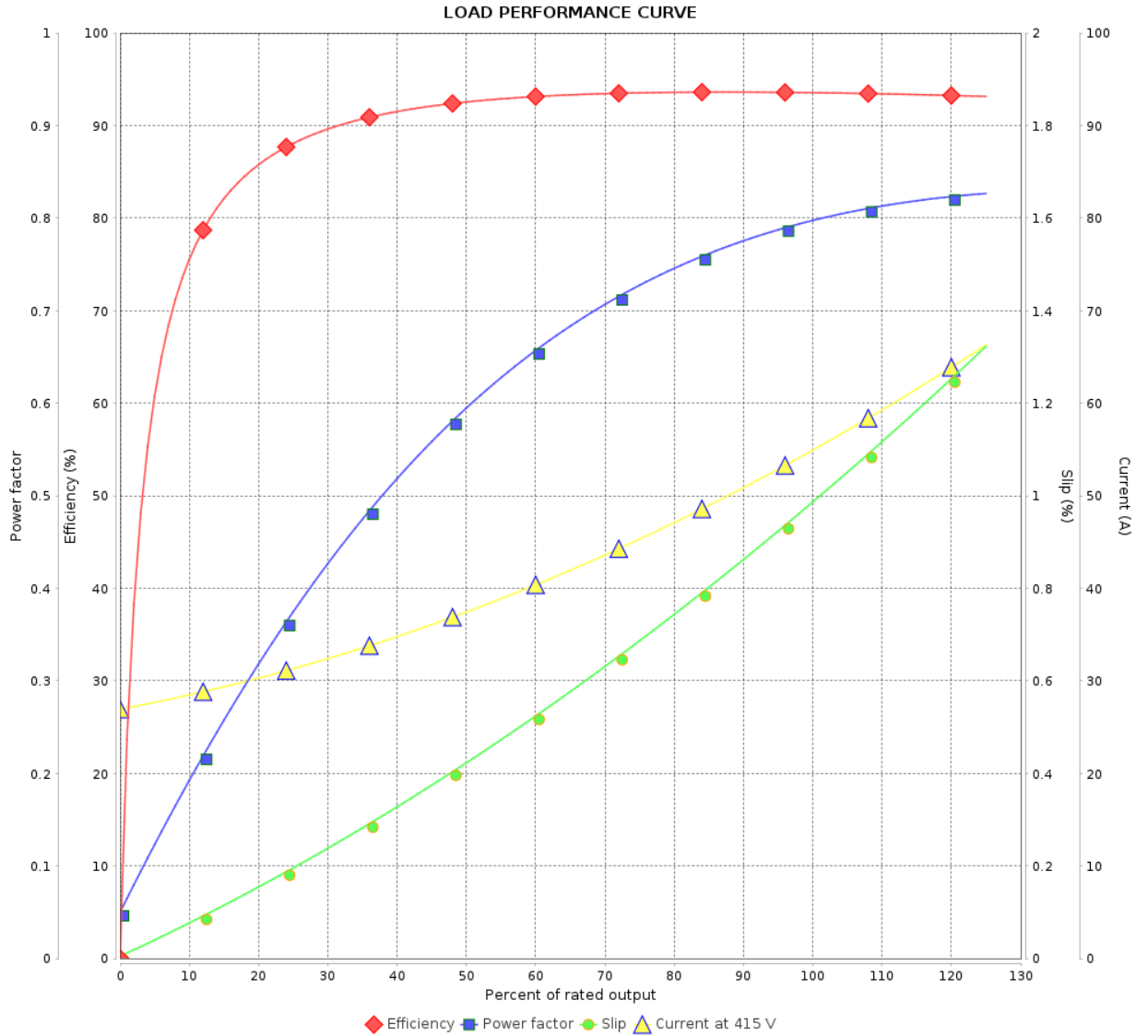
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113

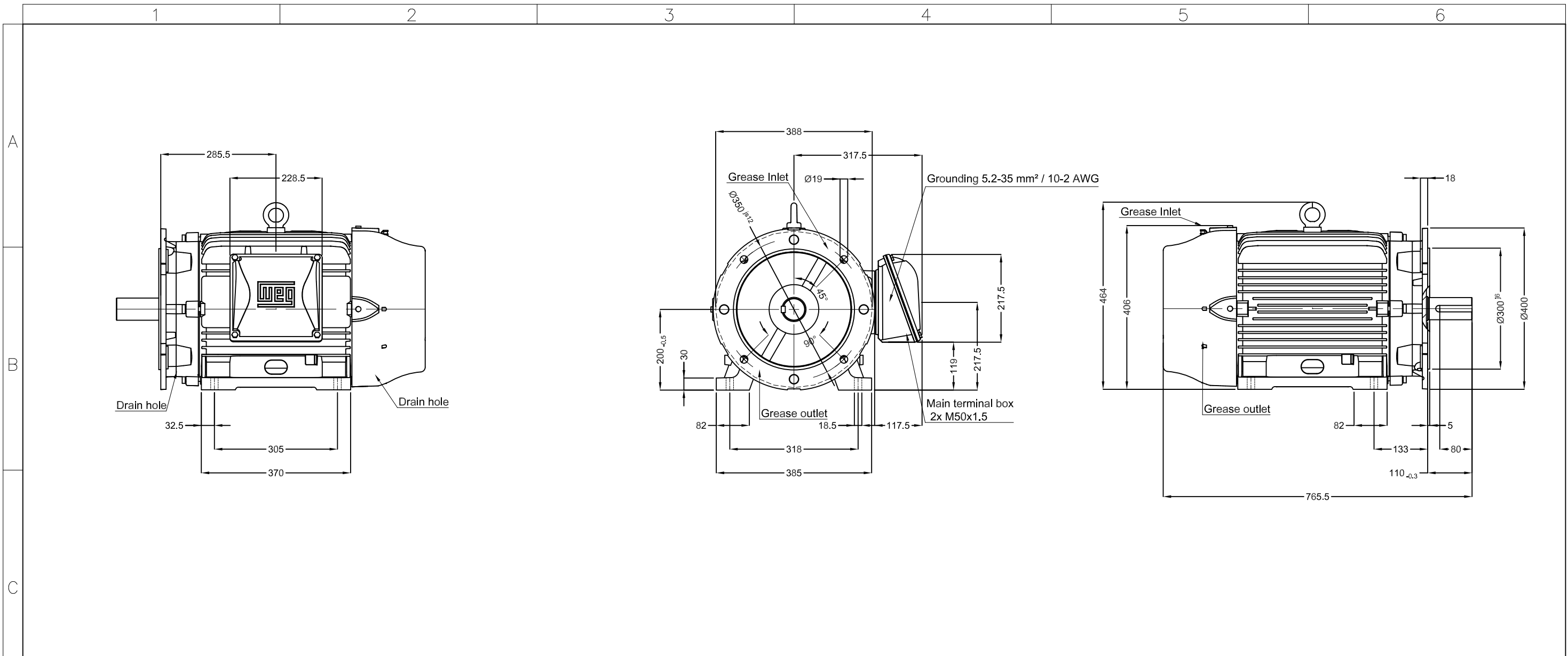


Performance : 415 V 50 Hz 4P

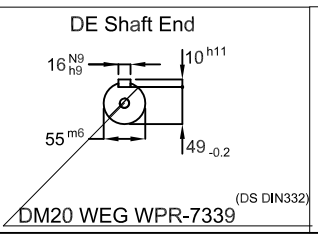
Rated current : 55.7 A
 LRC : 8.2
 Rated torque : 19.5 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 310 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 0.3468 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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Color RAL 5009		Painting plan 203A		Mounting B35L(E)		40 HP 04 Poles 60 Hz		A	
DE Shaft End		16 ^{NS} _{hg}		10 ^{h11}		55 ^{m6}		149 _{-0.2}	
DM20 WEG WPR-7339		(DS DIN332)							
ECM		LOC		SUMMARY OF MODIFICATIONS		HYBRISUSER		00	
EXECUTED		HYBRISUSER		THREE PH. MOTOR W22 IE3		EXECUTED		CHECKED	
CHECKED				FRAME 200L IP55 TEFC		RELEASED		DATE	
RELEASED						REL. DATE		VER	



Color RAL 5009
Painting plan 203A
Mounting B35L(E)

EXECUTED		HYBRISUSER		THREE PH. MOTOR W22 IE3		EXECUTED		CHECKED		RELEASED		DATE		VER	
CHECKED				FRAME 200L IP55 TEFC		EXECUTED		RELEASED		DATE		VER		00	
RELEASED						REL. DATE		SHEET		/		PREVIEW		WDD 00	

