DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 14605782

Frame	: 404/5HPH	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 512 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.5561 kgm²
Design	: B		

Output [HP]		100	75	75	75
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		224/112	99.6	94.6	92.2
L. R. Amperes [A]		1456/728	677	719	756
LRC [A]		6.5x(Code G)	6.8x(Code G)	7.6x(Code H)	8.2x(Code J)
No load current [A]		52.0/26.0	25.7	27.5	29.1
Rated speed [RPM]		3545	2955	2960	2965
Slip [%]		1.53	1.50	1.33	1.17
Rated torque [kgfm]		20.5	18.4	18.4	18.4
Locked rotor torque [%]		240	250	280	300
Breakdown torque [%]		260	280	310	330
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level²		79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
Efficiency (%)	25%				
	50%	93.0	93.0	93.1	93.5
	75%	94.1	93.8	93.8	94.0
	100%	94.1	94.3	94.3	94.3
Power Factor	25%				
	50%	0.83	0.82	0.80	0.78
	75%	0.88	0.88	0.86	0.85
	100%	0.89	0.89	0.89	0.88

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

Losses (%)	P1 (0,9;1,0)	5.9	5.9	5.9	5.9
	P2 (0,5;1,0)	4.6	4.6	4.6	4.6
	P3 (0,25;1,0)	4.4	4.4	4.4	4.4
	P4 (0,9;0,5)	2.8	2.8	2.8	2.8
	P5 (0,5;0,5)	1.6	1.6	1.6	1.6
	P6 (0,5;0,25)	0.9	0.9	0.9	0.9
	P7 (0,25;0,25)	0.5	0.5	0.5	0.5

		Drive end	Non drive end
Bearing type	:	6316 C3	6314 C3
Sealing	:	Lip Seal	Lip Seal
Lubrication interval	:	2000 h	3000 h
Lubricant amount	:	34 g	27 g
Lubricant type	:	Isoflex NBU-15	

Foundation loads

Max. traction

Max. compression

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.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 243A SF 1.10 SFA 268A

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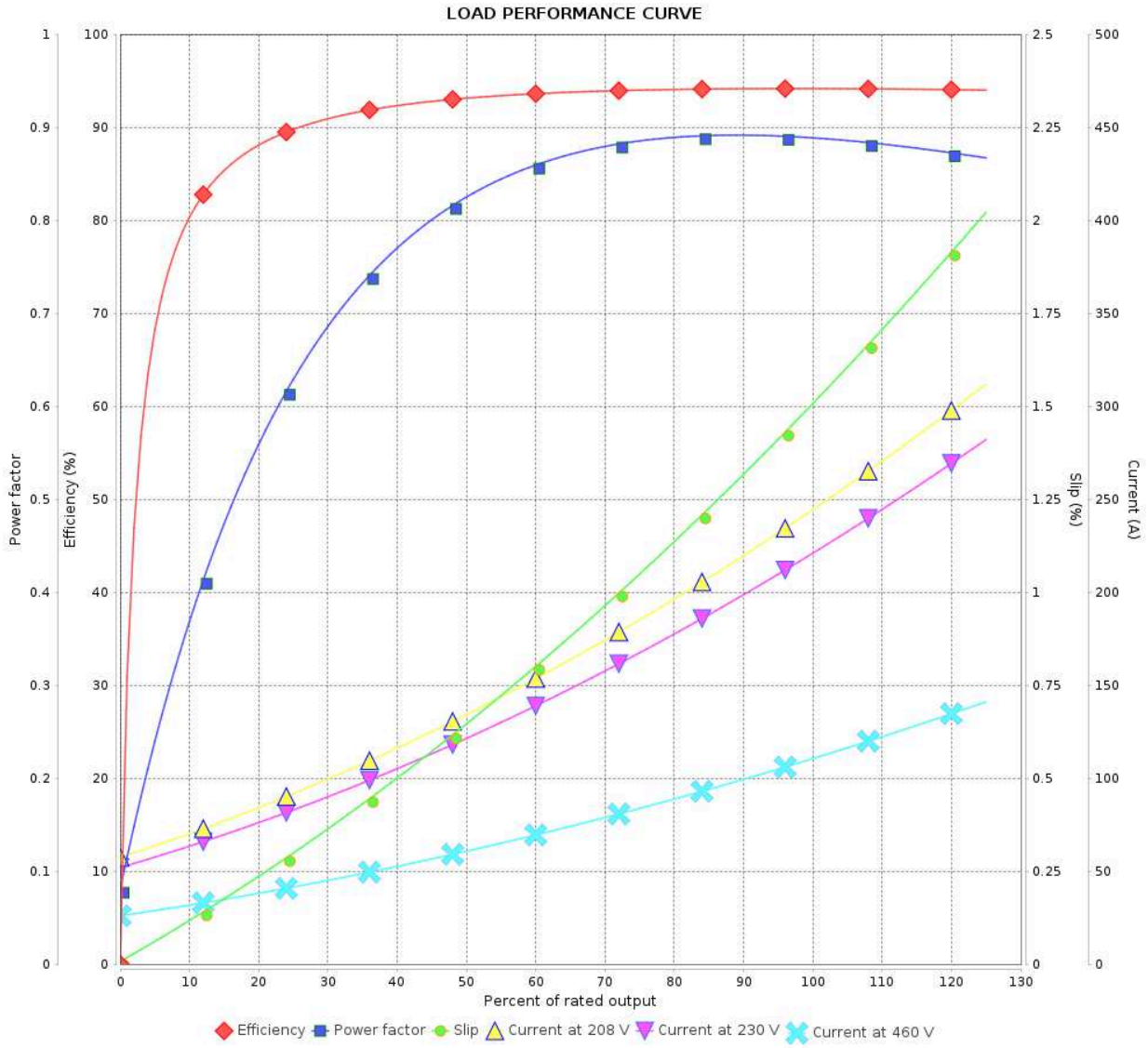
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	14605782



Performance	: 230/460 V 60 Hz 2P

Rated current	: 224/112 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 20.5 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

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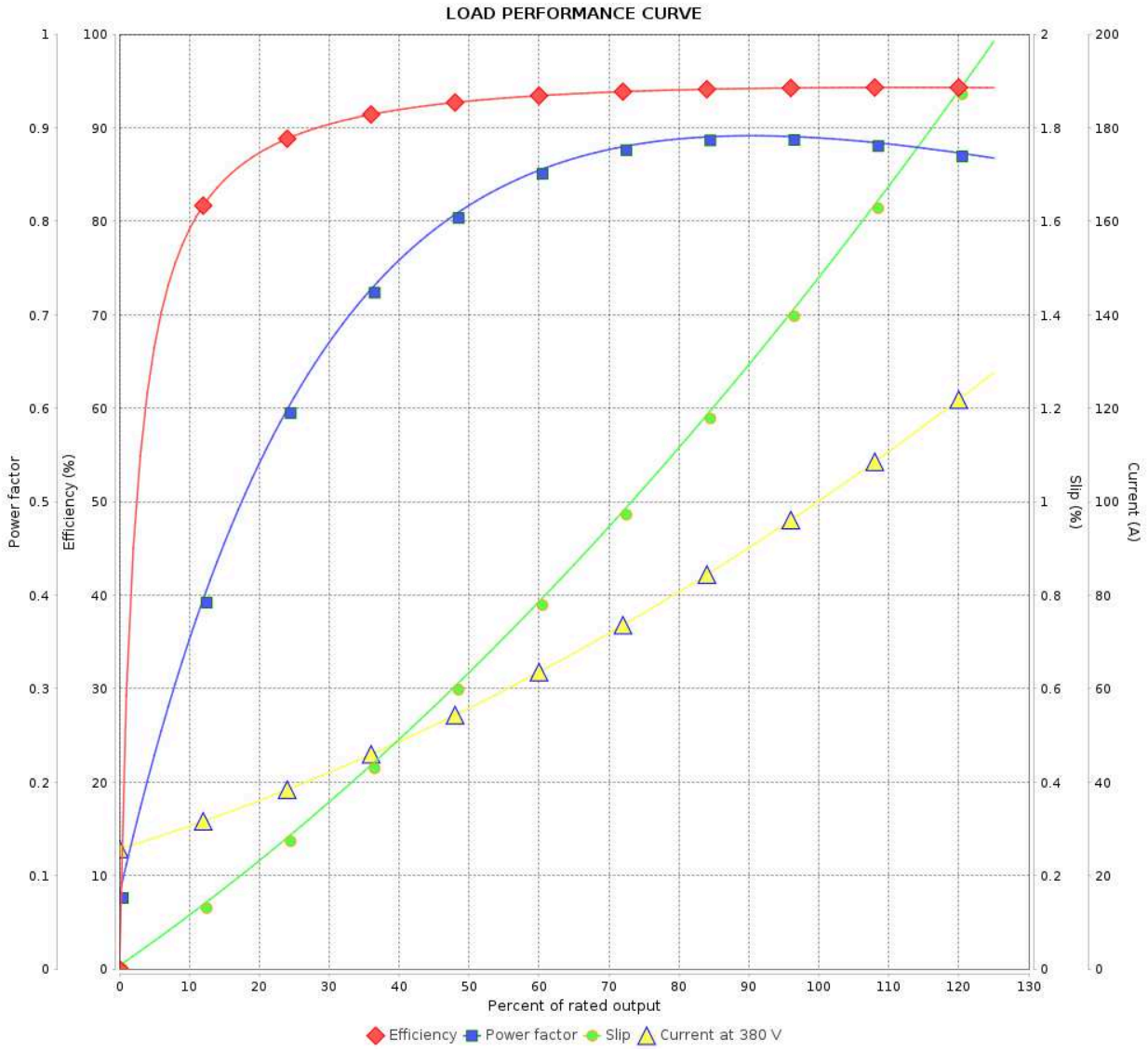
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 14605782



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 99.6 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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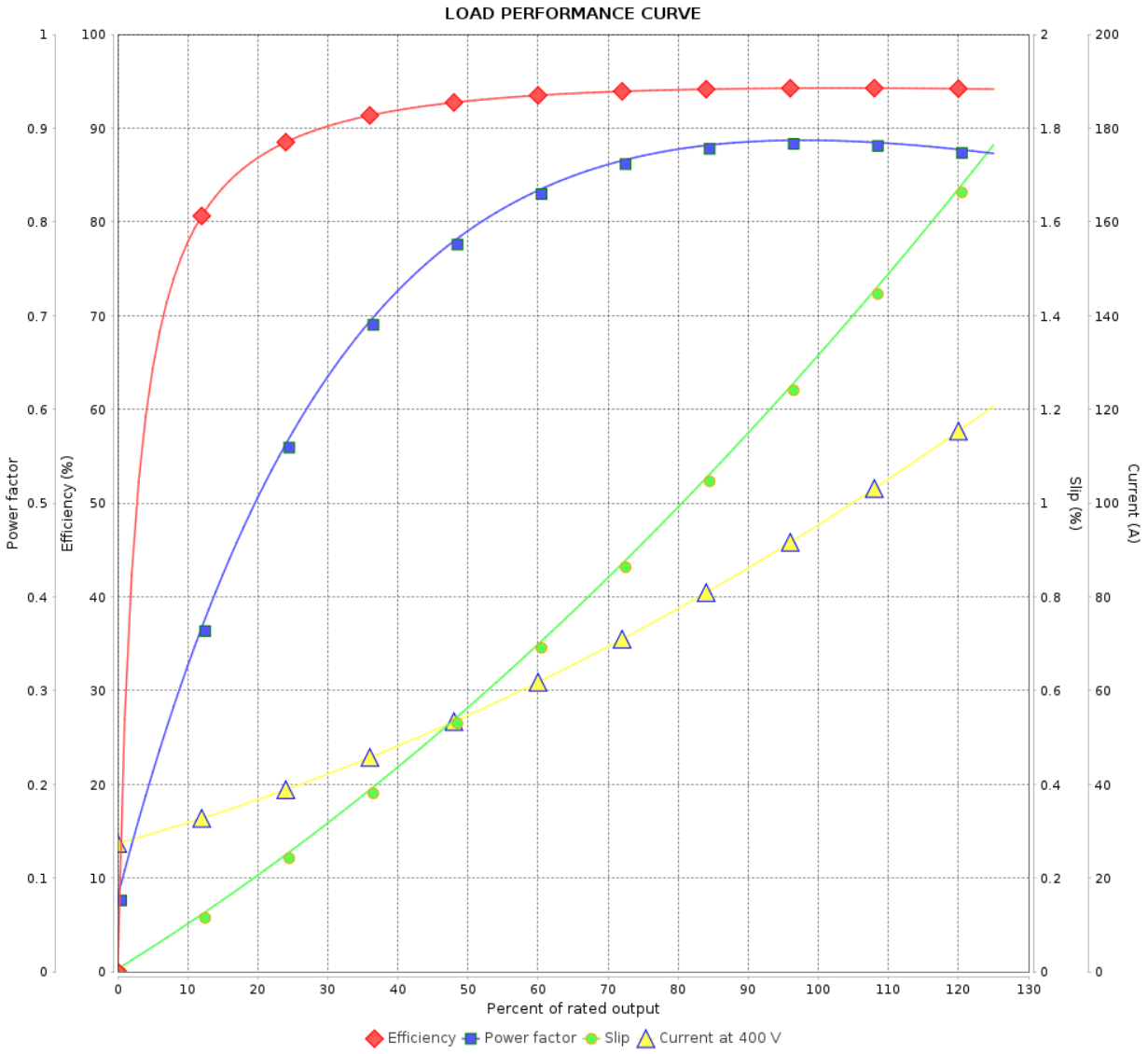
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 14605782



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 94.6 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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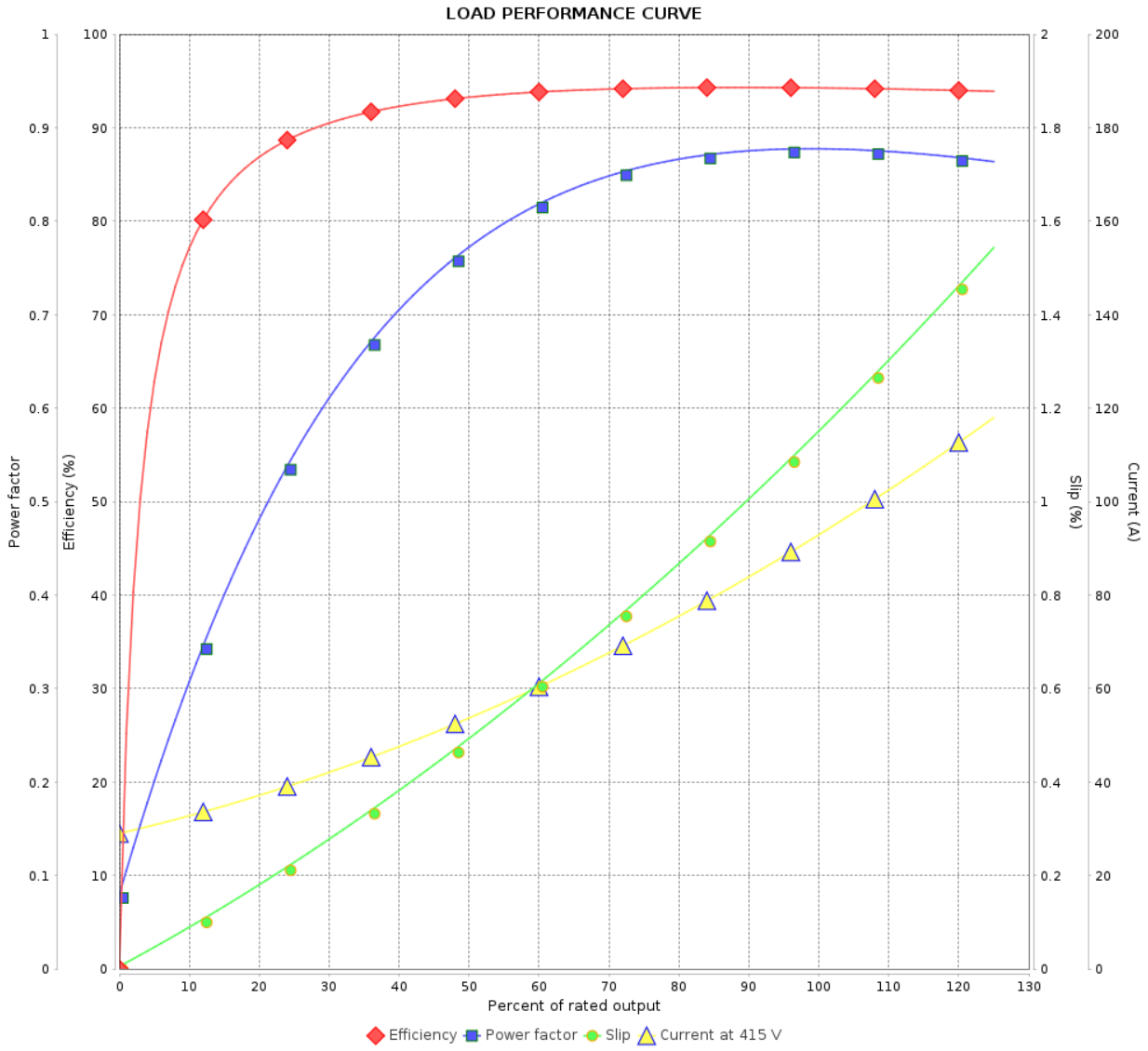
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	14605782



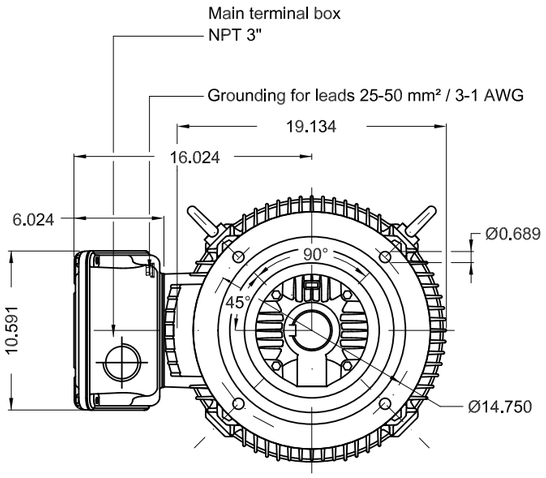
Performance	: 415 V 50 Hz 2P IE3

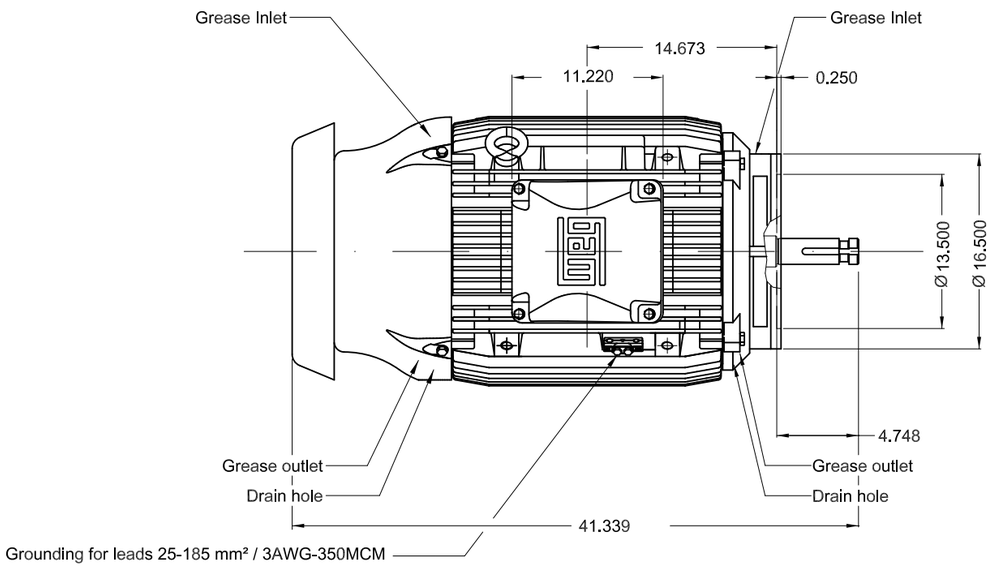
Rated current	: 92.2 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

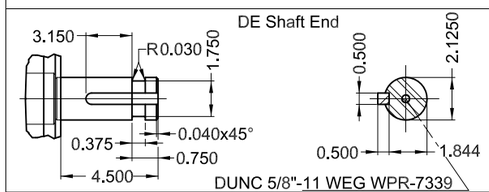
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Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V1

100 HP 02 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	DATAVIEWERUSER	THREE PH. MOTOR W22 P. BASE PREM. EFF.	PREVIEW
CHECKED		FRAME 404/5HPH IP55 TEFC	WDD
RELEASED			
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches
XME A3

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