

ABB BALDOR RELIANCE III

Customer information packet

CDRX18324T

3//2HP, 3470//2890RPM, 3PH, 60//50HZ, 182TC

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	182TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ 2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	3.200 A @ 380.0 V 3.800 A @ 460.0 V 6.400 A @ 190.0 V 7.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGY471
Layout	06LYH515
Eff. date	08-04-2022
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-29-2019

Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0618M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.31 IN
Power Factor	89
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3470 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1401XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE		T3C			
SPEC.	06-0000-0132						INV.TYPE		PWM			
CAT.NO.	CDRX18324T						C HP FR	60	C HP TO	90		
HP	3//2						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	7.6/3.8//6.4/3.2				MAG CUR		3/1.5					
RPM	3470//2890				MX RPM		5400					
HZ	60//50	PH	3	CL	B	NOM.EFF.		86.5				
SER.F.	1.00	DES	B	SL HZ	2	WK2		0.079				
FRAME	182TC	RATING		40C AMB-CONT								
	1.15 SF SINEWAVE											
	55C AMB @ 1.0SF						NEMA MG-1 PT 5,IP55					

AC Induction Motor Performance Data

Record # 69211

Typical performance - not guaranteed values

Winding: 06WGY471-R002		Type: 0618M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3//2	Full Load Torque	4.51 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	7.6/3.8//6.4/3.2	Breakdown Torque	25.5 LB-FT
R.P.M.	3470//2890	Pull-up Torque	9.08 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	11.9 LB-FT
NEMA Design Code	B KVA Code	Starting Current	29.3 A
Service Factor (S.F.)	1	No-load Current	1.64 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	6.24 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	45°C
S.F. Amps		Temp. Rise @ S.F. Load	56°C
		Locked-rotor Power Factor	59.2
		Rotor inertia	0.0795 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	70	81	87	90	91
Efficiency	81.1	86.6	87.4	86.6	85.2	83.1
Speed	3568	3538	3505	3468	3430	3382
Line amperes	1.82	2.29	2.94	3.71	4.53	5.5

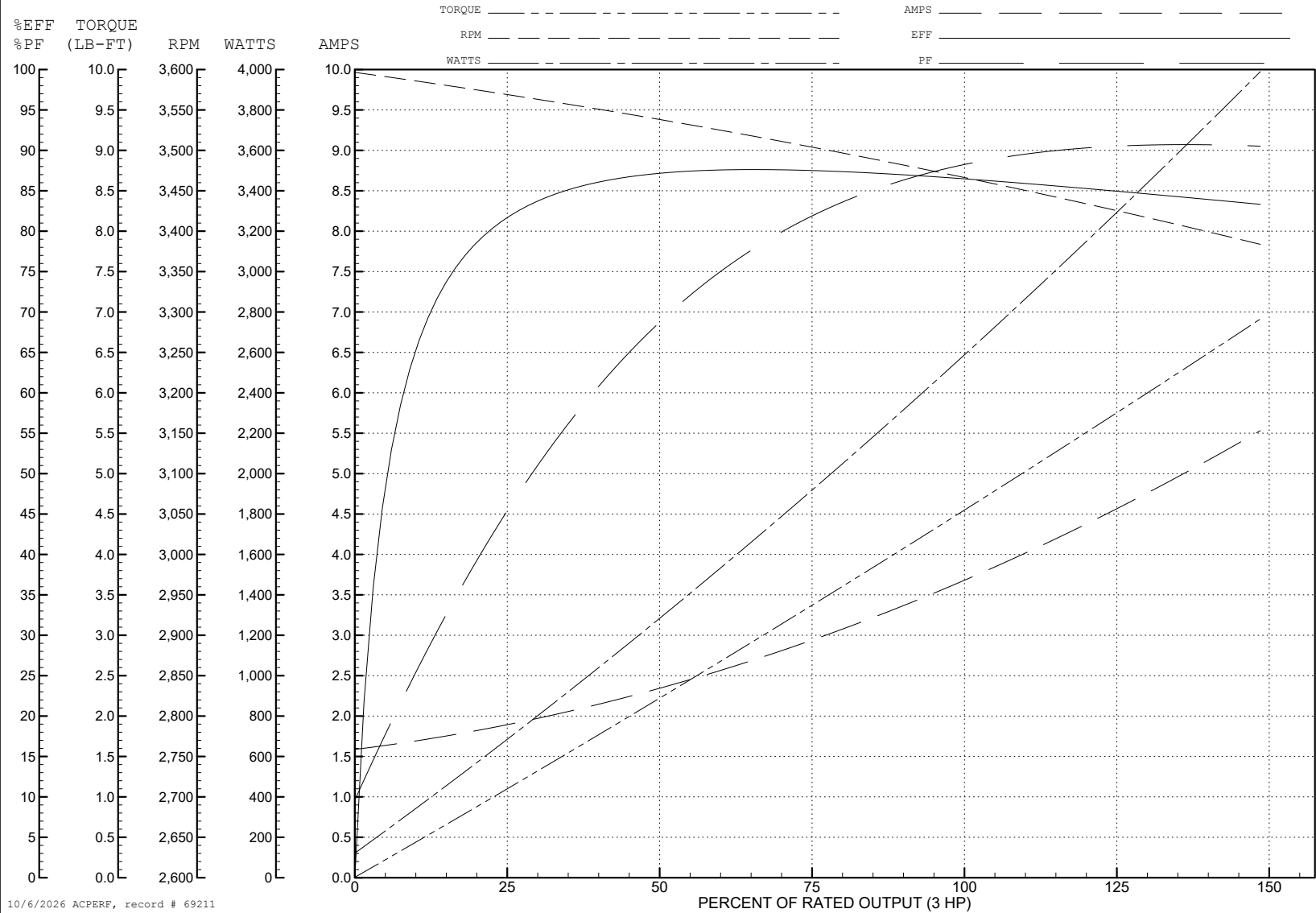
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WINDING # 06WGY471

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3468 RPM 460 V 0618M

TORQUES (LB-FT): PO=25.5 PU=9.08 LR=11.9 LRA=29.3



AC Induction Motor Performance Data

Record # 69212

Typical performance - not guaranteed values

Winding: 06WGY471-R002		Type: 0618M	Enclosure: TEFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	3//2	Full Load Torque	3.61 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	7.6/3.8//6.4/3.2	Breakdown Torque	23.13 LB-FT
R.P.M.	3470//2890	Pull-up Torque	9.15 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	11.99 LB-FT
NEMA Design Code	B KVA Code	Starting Current	27.03 A
Service Factor (S.F.)	1	No-load Current	1.6 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	6.24 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C
S.F. Amps		Temp. Rise @ S.F. Load	43°C
		Locked-rotor Power Factor	65.7
		Rotor inertia	0.0795 LB-FT ²

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	44	65	78	84	88	90
Efficiency	73.4	81.5	84.1	84.1	83.2	81.7
Speed	2972	2947	2921	2890	2860	2821
Line amperes	1.73	2.09	2.58	3.18	3.82	4.57

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WINDING # 06WGY471

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 2890 RPM 380 V 0618M

TORQUES (LB-FT) : PO=23.13 PU=9.15 LR=11.99 LRA=27.03

