

ABB BALDOR RELIANCE III

Customer information packet

CDRX181564T

1.5HP, 1170//970RPM, 3PH, 60/50HZ, 182TC, XPF

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	1.500 HP @ 60 HZ 1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	2.297 A @ 380.0 V 2.500 A @ 460.0 V 4.400 A @ 190.0 V 5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGW969
Layout	06LYH515
Eff. date	05-23-2023
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	06-21-2019

Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 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	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0630M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.31 IN
Power Factor	65
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	1170 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.	06-0000-0139					INV.TYPE		PWM			
CAT.NO.	CDRX181564T					C HP FR	60	C HP TO	90		
HP	1.5//1					CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380					VT HZ FROM		6	VT HZ TO		60
AMPS	5/2.5//4.4/2.297				MAG CUR	3/1.5					
RPM	1170//970				MX RPM	1800					
HZ	60//50	PH	3	CL	F	NOM.EFF.		87.5			
SER.F.	1.00	DES	B	SL HZ	1.5	WK2	0.282				
FRAME	182TC	RATING		40C AMB-CONT							
	55C AMB @ 1.0 SF										
	1.15 SF SINEWAVE					NEMA MG-1 PT 5,IP55					

AC Induction Motor Performance Data

Record # 75917

Typical performance - not guaranteed values

Winding: 06WGW969-R007			Type: 0630M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		1.5//1		Full Load Torque		6.76 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		5/2.5//4.4/2.2970		Breakdown Torque		23.83 LB-FT	
R.P.M.		1170		Pull-up Torque		12.5 LB-FT	
Hz		60//50	Phase	3	Locked-rotor Torque		15.8 LB-FT
NEMA Design Code		B		KVA Code		K	
Service Factor (S.F.)		1		Starting Current		16.19 A	
NEMA Nom. Eff.		87.5	Power Factor	65	Line-line Res. @ 25°C		7.01 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C	
S.F. Amps				Temp. Rise @ S.F. Load		31°C	
				Locked-rotor Power Factor		30.4	
				Rotor inertia		0.282 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	45	57	65	70	73
Efficiency	71.5	81.5	84.5	85.7	85.6	84.5
Speed	1193	1186	1179	1171	1163	1152
Line amperes	1.71	1.92	2.21	2.54	2.95	3.42

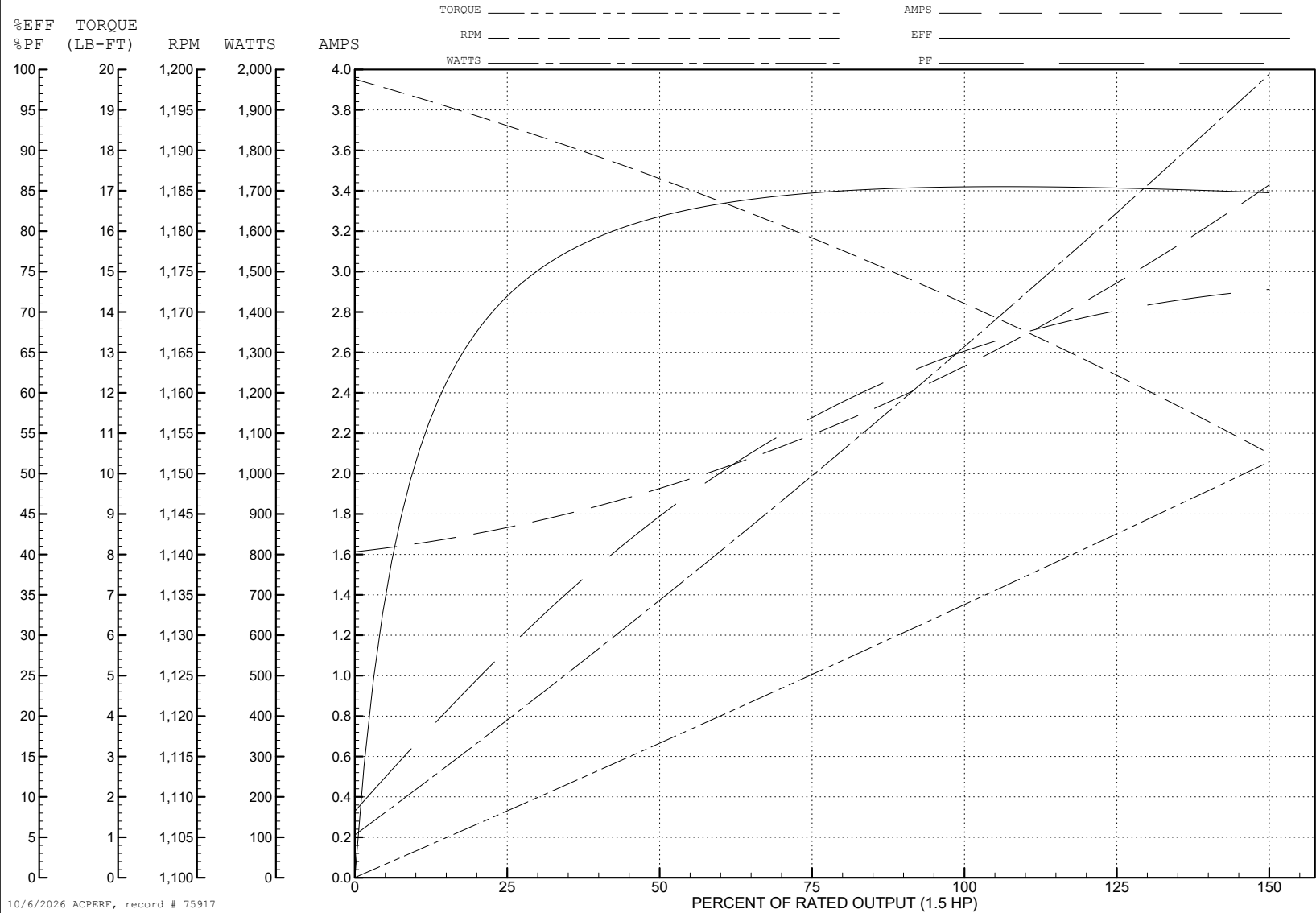
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WINDING # 06WGW969

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1170 RPM 460 V 0630M

TORQUES (LB-FT): PO=23.83 PU=12.5 LR=15.8 LRA=16.19



AC Induction Motor Performance Data

Record # 75918

Typical performance - not guaranteed values

Winding: 06WGW969-R007			Type: 0630M		Enclosure: TEFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		1.5//1		Full Load Torque		5.42 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		5/2.5//4.4/2.2970		Breakdown Torque		22.86 LB-FT		
R.P.M.		1170		Pull-up Torque		13.14 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		16.61 LB-FT	
NEMA Design Code		B		KVA Code	K	Starting Current		15.76 A
Service Factor (S.F.)		1		No-load Current		1.61 A		
NEMA Nom. Eff.		87.5	Power Factor		65	Line-line Res. @ 25°C		7.01 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		21°C
						Locked-rotor Power Factor		34.4
						Rotor inertia		0.282 LB-FT2

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	25	40	51	60	66	71
Efficiency	68.3	79.4	83.2	84.8	84.9	84.1
Speed	994	989	983	977	970	962
Line amperes	1.66	1.81	2.01	2.24	2.54	2.87

ABB Motors and Mechanical Inc.

WINDING # 06WGW969

Typical performance - not guaranteed values.

1 HP 3 PH 50 HZ 1170 RPM 380 V 0630M

TORQUES (LB-FT): PO=22.86 PU=13.14 LR=16.61 LRA=15.76

