

ABB BALDOR RELIANCE III

Customer information packet

CDRX18264T

2HP, 1165//970RPM, 3PH, 60HZ, 184TC, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
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	2.000 HP @ 60 HZ 1.500 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	3.000 A @ 380.0 V 3.150 A @ 460.0 V 6.000 A @ 190.0 V 6.300 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.	06WGW970
Layout	06LYH515
Eff. date	03-05-2025
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	05-29-2019

Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 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	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.31 IN
Power Factor	68
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	1165 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.	06-0000-0134						INV.TYPE		PWM			
CAT.NO.	CDRX18264T						C HP FR	60	C HP TO	90		
HP	2//1.5						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	6.3/3.15//6/3				MAG CUR		3.6/1.8					
RPM	1165//970				MX RPM		1800					
HZ	60//50	PH	3	CL	F	NOM.EFF.		88.5				
SER.F.	1.00	DES	B	SL HZ		1.8	WK2	0.395				
FRAME	184TC	RATING		40C AMB-CONT								
	1.15 SF SINEWAVE											
	55C AMB @ 1.0SF					NEMA MG-1 PT 5,IP55						

AC Induction Motor Performance Data

Record # 75925

Typical performance - not guaranteed values

Winding: 06WGW970-R007			Type: 0642M	Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	2//1.5		Full Load Torque	9.06 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	6.3/3.15//6/3		Breakdown Torque	31.02 LB-FT	
R.P.M.	1165//970		Pull-up Torque	16.7 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	19.9 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	20.9 A
Service Factor (S.F.)	1		No-load Current	1.84 A	
NEMA Nom. Eff.	88.5	Power Factor	68	Line-line Res. @ 25°C	5.12 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	28°C	
S.F. Amps			Temp. Rise @ S.F. Load	33°C	
			Locked-rotor Power Factor	28.5	
			Rotor inertia	0.395 LB-FT2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	32	49	61	68	73	75
Efficiency	75.2	83.8	86.2	87.2	86.2	85.3
Speed	1193	1186	1178	1170	1160	1149
Line amperes	1.98	2.28	2.7	3.18	3.72	4.37

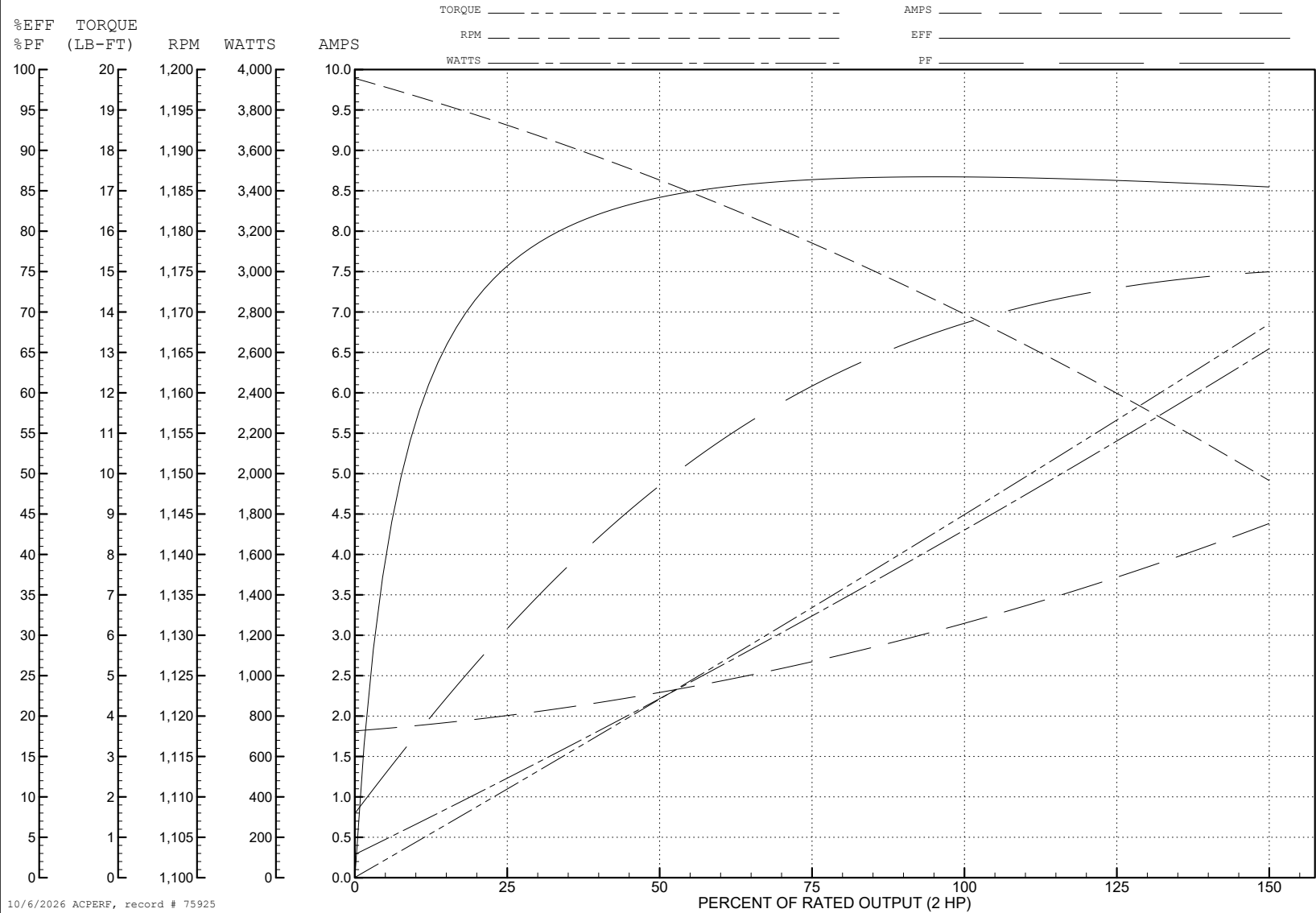
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WINDING # 06WGW970

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1170 RPM 460 V 0642M

TORQUES (LB-FT): PO=31.02 PU=16.7 LR=19.9 LRA=20.9



AC Induction Motor Performance Data

Record # 75926

Typical performance - not guaranteed values

Winding: 06WGW970-R007			Type: 0642M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		2//1.5		Full Load Torque		8.17 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		6.3/3.15//6/3		Breakdown Torque		30 LB-FT		
R.P.M.		1165//970		Pull-up Torque		17.62 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		21 LB-FT	
NEMA Design Code		B	KVA Code		K	Starting Current		20.39 A
Service Factor (S.F.)		1		No-load Current		1.82 A		
NEMA Nom. Eff.		88.5	Power Factor		68	Line-line Res. @ 25°C		5.12 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C		
				Locked-rotor Power Factor		32.2		
				Rotor inertia		0.395 LB-FT2		

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	46	58	66	72	75
Efficiency	78	85.4	87.3	87.9	86.4	85.4
Speed	994	987	980	973	964	955
Line amperes	1.93	2.18	2.53	2.94	3.41	3.98

ABB Motors and Mechanical Inc.

WINDING # 06WGW970

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 973 RPM 380 V 0642M

TORQUES (LB-FT): PO=30 PU=17.62 LR=21 LRA=20.39

