

ABB BALDOR RELIANCE III

Customer information packet

CDRX18544T

5HP, 1750//1450RPM, 3PH, 60/50HZ, 184TC, XPFC

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	5.000 HP @ 60 HZ 3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	10.400 A @ 190.0 V 13.200 A @ 230.0 V 5.200 A @ 380.0 V 6.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX182
Layout	06LYH515
Eff. date	06-01-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-21-2019

Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.31 IN
Power Factor	79
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	1750 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.	06-0000-0130						INV.TYPE		PWM			
CAT.NO.	CDRX18544T						C HP FR	60	C HP TO	90		
HP	5//3						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	13.2/6.6//10.4/5.2						MAG CUR	6/3				
RPM	1750//1450						MX RPM	2700				
HZ	60//50	PH	3	CL	F	NOM.EFF.		89.5				
SER.F.	1.00	DES	B	SL HZ	1.7	WK2	0.39					
FRAME	184TC	RATING		40C AMB-CONT								
	55C AMB @ 1.0 SF											
	1.15 SF SINEWAVE						NEMA MG-1 PT 5,IP55					

Parts List

Part number	Description	Quantity
SA371139	SA 06-0000-0130	1.000 ea
RA360819	RA 06-0000-0130	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP1401XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1081F	ALUM XP CAUTION LABEL (FS PLANT ONLY-	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06FH1003A06	FH, XP W/GRSR	1.000 ea
51XN1032A14	10-32 X 0.875 HX WS SL SR	4.000 ea
34FN3002A02	EXTERNAL FAN, PLASTIC, .905/.907 HUB W/	1.000 ea
51XB0818A12	8-18X3/4 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
06EP1709A07	FREP XPFC 205 BRG GRP C W/DRAIN (HW4506A	1.000 ea
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4506A02	BREATHING/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
06EP1707A17	PUEP 182-4TC M GRP-C DRAIN(HW4506A02)	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	4.000 ea
HA2071A01	SLINGER ALUM (AUTO)	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
HW4001A01	1/4 HX SOC PIPE PLG (F/S) ALLOY STEEL W/	2.000 ea
63XN1032A07	10-32 X 7/16 TRUSS HEAD,TORX SERRATED ZN	2.000 ea

HW4506A02	BREATHING/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
07CB1000A02	CONDUIT BOX, MODEL 306,EXP. PROOF	1.000 ea
10XN2520A14	1/4 20X7/8 HX HD CAP	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
07CB1502A01	CONDUIT BOX LID MACH (DUCTILE IRON)	1.000 ea
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.022 ga
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 ga
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
HW2501E17	.250 SQUARE X 1.875 LONG LOW CARBON STEE	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea

AC Induction Motor Performance Data

Record # 39057

Typical performance - not guaranteed values

Winding: 06WGX182-R030			Type: 0642M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		15 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		13.2/6//10.4/5.2		Breakdown Torque		53.9 LB-FT	
R.P.M.		1750//1450		Pull-up Torque		22.4 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		31.8 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		46.6 A
Service Factor (S.F.)		1.15		No-load Current		3.02 A	
NEMA Nom. Eff.		89.5	Power Factor	79	Line-line Res. @ 25°C		2.63 Ω
Rating - Duty		55C AMB-CONT		Temp. Rise @ Rated Load		53°C	
S.F. Amps				Temp. Rise @ S.F. Load		66°C	
				Locked-rotor Power Factor		40.5	
				Rotor inertia		0.391 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	63	75	81	84	85	81
Efficiency	85.1	89.7	90.3	89.8	88.4	86.8	88.7
Speed	1789	1777	1765	1752	1737	1721	1739
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.52

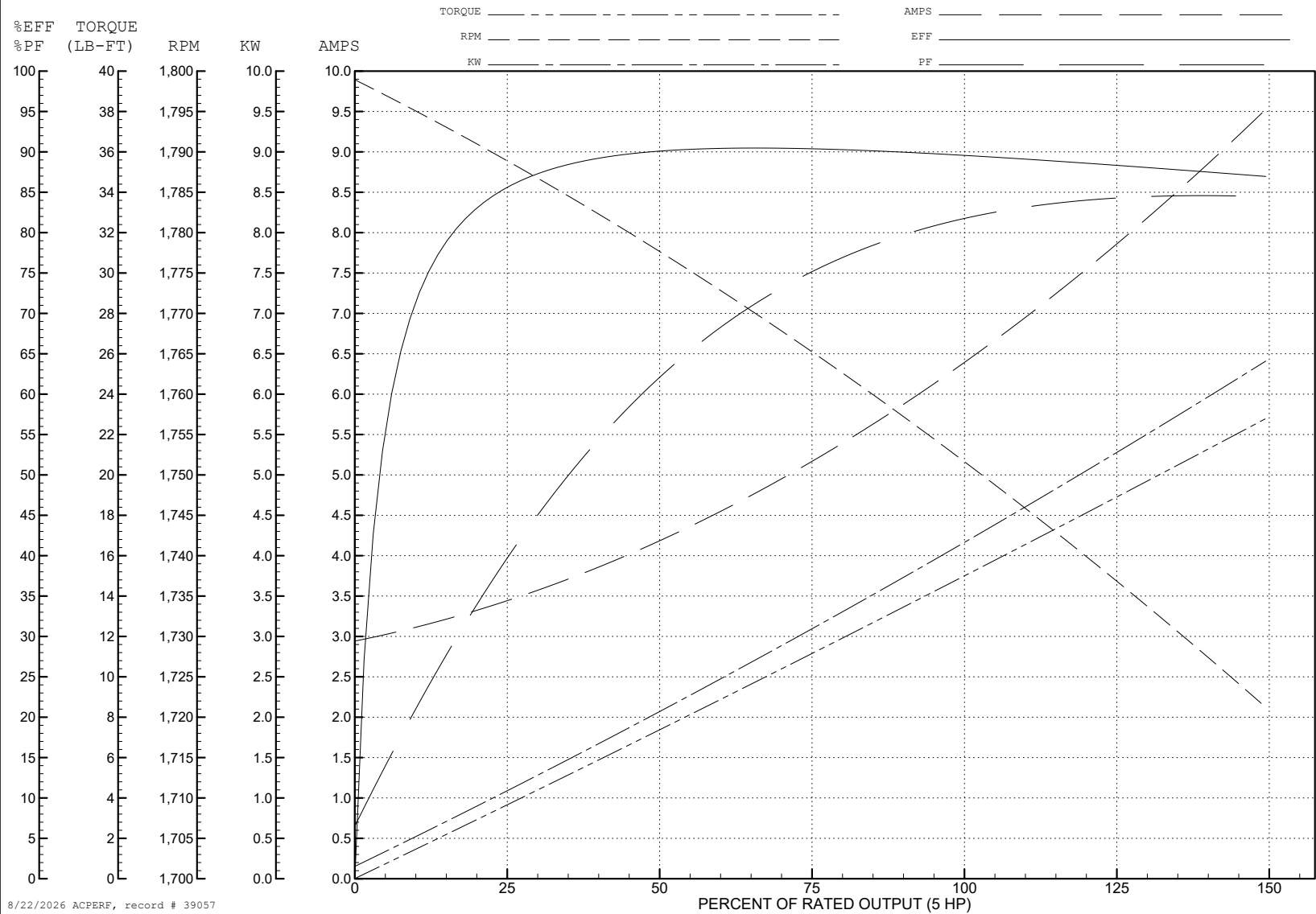
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WINDING # 06WGX182

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1752 RPM 460 V 0642M

TORQUES (LB-FT) : PO=53.9 PU=22.4 LR=31.8 LRA=46.6



AC Induction Motor Performance Data

Record # 39058

Typical performance - not guaranteed values

Winding: 06WGX182-R030			Type: 0642M		Enclosure: TEFC			
Nameplate Data			380 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		5//3	Full Load Torque		10.77 LB-FT			
Volts		230/460//190/380	Start Configuration		direct on line			
Full Load Amps		13.2/6//10.4/5.2	Breakdown Torque		50.97 LB-FT			
R.P.M.		1750//1450	Pull-up Torque		22.82 LB-FT			
Hz		60//50	Phase		3	Locked-rotor Torque	32.39 LB-FT	
NEMA Design Code		B	KVA Code		J	Starting Current		44.96 A
Service Factor (S.F.)		1.15	No-load Current		2.97 A			
NEMA Nom. Eff.		89.5	Power Factor		79	Line-line Res. @ 25°C		2.63 Ω
Rating - Duty		55C	AMB-CONT		Temp. Rise @ Rated Load		36°C	
S.F. Amps			Temp. Rise @ S.F. Load		43°C			
			Locked-rotor Power Factor		45			
			Rotor inertia		0.391 LB-FT2			

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	54	67	75	80	83	76
Efficiency	80.7	87.3	89	89	88.2	87.2	88.3
Speed	1492	1483	1474	1464	1454	1443	1454
Line amperes	3.16	3.63	4.29	5.08	6.03	7.05	5.82

ABB Motors and Mechanical Inc.

WINDING # 06WGX182

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 1464 RPM 380 V 0642M

TORQUES (LB-FT) : PO=50.97 PU=22.82 LR=32.39 LRA=44.96

