

**BALDOR® • RELIANCE** 

**Product Information Packet**

**CPX32546T**

**50HP,1775//1475RPM,3PH,60HZ,326TY,XPFC**

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY585	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	12LY-000-157	Poles:	04	Created Date:	02-19-2019
Base:		Eff. Date:	08-17-2021	Leads:	9#8		

Specs			
Catalog Number:	CPX32546T	Electrically Isolated Bearing:	Not Electrically Isolated
Enclosure:	XPFC	Enclosure Modification:	Severe Duty Features
Frame:	326TY	Feedback Device:	NO FEEDBACK
Frame Material:	Iron	Heater Indicator:	No Heater
Output @ Frequency:	40.000 HP @ 50 HZ	Insulation Class:	F
	50.000 HP @ 60 HZ	Inverter Code:	Inverter Duty
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	IP Rating:	IP55
Voltage @ Frequency:	230.0 V @ 60 HZ	KVA Code:	J
	380.0 V @ 50 HZ	Lifting Lugs:	Standard Lifting Lugs
	460.0 V @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
	190.0 V @ 50 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP C,D; CLII GP E,F,G	Motor Type:	1276M
XP Division:	Division I	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	84
	CSA EEV	Product Family:	Chemical Process Features
	CSA	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Rodent Screen:	None
Auxillary Box Lead Termination:	None	RoHS Status:	ROHS NON-COMPLIANT

<b>Base Indicator:</b>	Rigid	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Rotation:</b>	Reversible
<b>Blower:</b>	None	<b>Speed Code:</b>	Single Speed
<b>Constant Torque Speed Range:</b>	6	<b>Motor Standards:</b>	NEMA
<b>Current @ Voltage:</b>	59.000 A @ 460.0 V	<b>Starting Method:</b>	Direct on line
	57.000 A @ 380.0 V	<b>Thermal Device - Bearing:</b>	None
	118.000 A @ 230.0 V	<b>Thermal Device - Winding:</b>	Normally Closed Thermostat
	114.000 A @ 190.0 V	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Design Code:</b>	A	<b>Winding Thermal 1:</b>	None
<b>Drip Cover:</b>	No Drip Cover	<b>Winding Thermal 2:</b>	None
<b>Duty Rating:</b>	CONT	<b>XP Temp Code:</b>	T3C

Nameplate NP2033XPSLEV											
NO.					CC	010A					
S/N					TEMP CODE	T3C					
SPEC.	12-0000-0487				INV.TYPE	PWM					
CAT.NO.	CPX32546T				C HP FR	60		C HP TO	90		
HP	50//40				CT HZ FROM	6		CT HZ TO	60		
VOLTS	230/460//190/380				VT HZ FROM	6		VT HZ TO	60		
AMPS	118/59//114/57				MAG CUR	50/25					
RPM	1775//1475				MX RPM	2700					
HZ	60//50		PH	3		CL	F				
SER.F.	1.00		DES	A		SL HZ	0.83		NOM.EFF.	94.5	
FRAME	326TY		RATING	40C AMB-CONT				WK2	10.1		
BLANK	55C AMB @ 1.0SF, 60C RISE										
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55				

Parts List		
Part Number	Description	Quantity
SA366356	SA 12-0000-0487	1.000 EA
RA355781	RA 12-0000-0487	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP2033XPSLEV	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 (2100/bx) 4/22	1.000 EA
LB1081C	ALUM XP CAUTION LABEL (COL PLANT ONLY-	1.000 EA
10XN3816E08	3/8-16 X .50 HEX HD SCREW BRONZE	1.000 EA
HW1001B38	WASHER, 3/8 SPLT LK, CS, .678OD X .382ID	1.000 EA
12FH1001A07P	FAN COVER, MACH W/EPOXY PRIMER & SLOT FO	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 EA
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.200 LB
12EP1705A23PP15	ENDPLATE, MACH.312-EXPL.PROOF 311 BRG.-G	1.000 EA
HA3051A03	1/2-13X2.75 BLT GR8 1.75 TO E NC F/S	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HA2009A50	SLINGER FOR GROUP E MTRS - 311 BRG.	1.000 EA
80XN0632A10	SET SCREW,#6-32 X .62 LG.HEX SOC. HD.	2.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA4017A03	.125 X 1.75 GREASE EXT (F/S)	1.000 EA
HA4017A08	.125X3.50 GREASER EXTEN.	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
12EP1706A09P	EP, MACH. XPFC 312 BRG.	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HA3051A03	1/2-13X2.75 BLT GR8 1.75 TO E NC F/S	4.000 EA
HA2009A49	SLINGER FOR GROUP E MTRS - 312 BRG.	1.000 EA
80XN0632A10	SET SCREW,#6-32 X .62 LG.HEX SOC. HD.	2.000 EA
10XN3118K40	5/16-18 X 2.75" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
12CB1003A01P	KOBX,MACH 2.00 NPT GROUP C MTRS,EPOXY PR	1.000 EA
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 EA
WD1000B19	TERMINAL BURNDY L250HP	1.000 EA
10XN3816K12	3/8-16 X 3/4 HEX HD CAP GRADE 5	1.000 EA

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HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 EA
12CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 EA
84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT, .879 OD, .509 I	10.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.125 GA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
HW2501H34	KEY, 1/2 SQ X 4.00	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT

**AC Induction Motor Performance Data**

Record # 60172

Typical performance - not guaranteed values

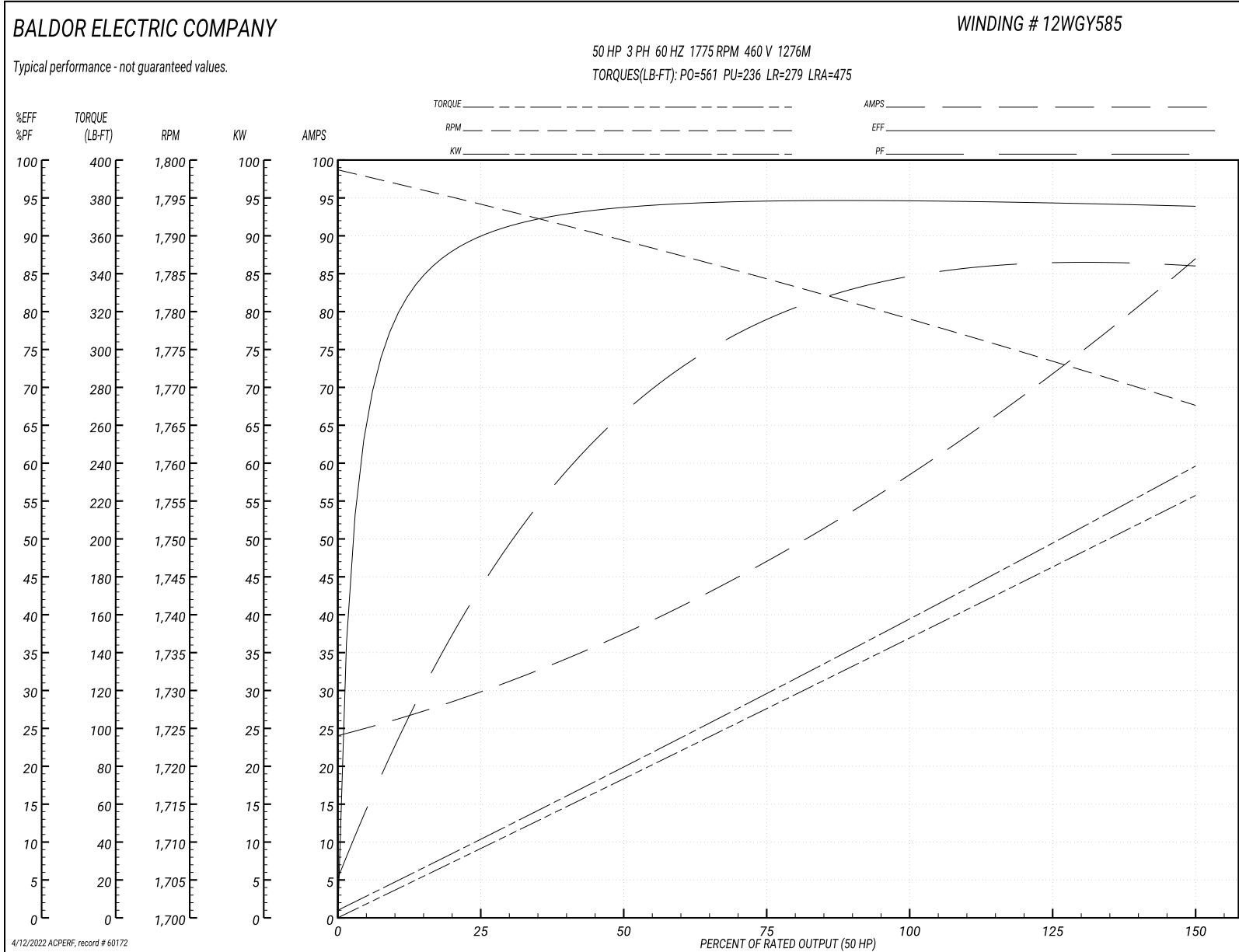
<b>Winding: 12WGY585-R008</b>		<b>Type: 1276M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	50	<b>Full Load Torque</b>	148 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	118/59	<b>Breakdown Torque</b>	561 LB-FT		
<b>R.P.M.</b>	1775	<b>Pull-up Torque</b>	236 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	279 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	J	<b>Starting Current</b>	475 A	
<b>Service Factor (S.F.)</b>	1	<b>No-load Current</b>	25 A		
<b>NEMA Nom. Eff.</b>	94.5 <b>Power Factor</b>	84	<b>Line-line Res. @ 25°C</b>	0.096885 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	56°C	
			<b>Locked-rotor Power Factor</b>	26.4	
			<b>Rotor inertia</b>	10.1 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 50 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	46	68	78	84	85	87
<b>Efficiency</b>	90	93.7	94.6	94.7	94.4	93.9
<b>Speed</b>	1794	1789.1	1784.4	1779.2	1773.7	1767.4
<b>Line amperes</b>	28.6	36.9	47.3	59.1	72.4	86.3



Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values



**AC Induction Motor Performance Data**

Record # 74482

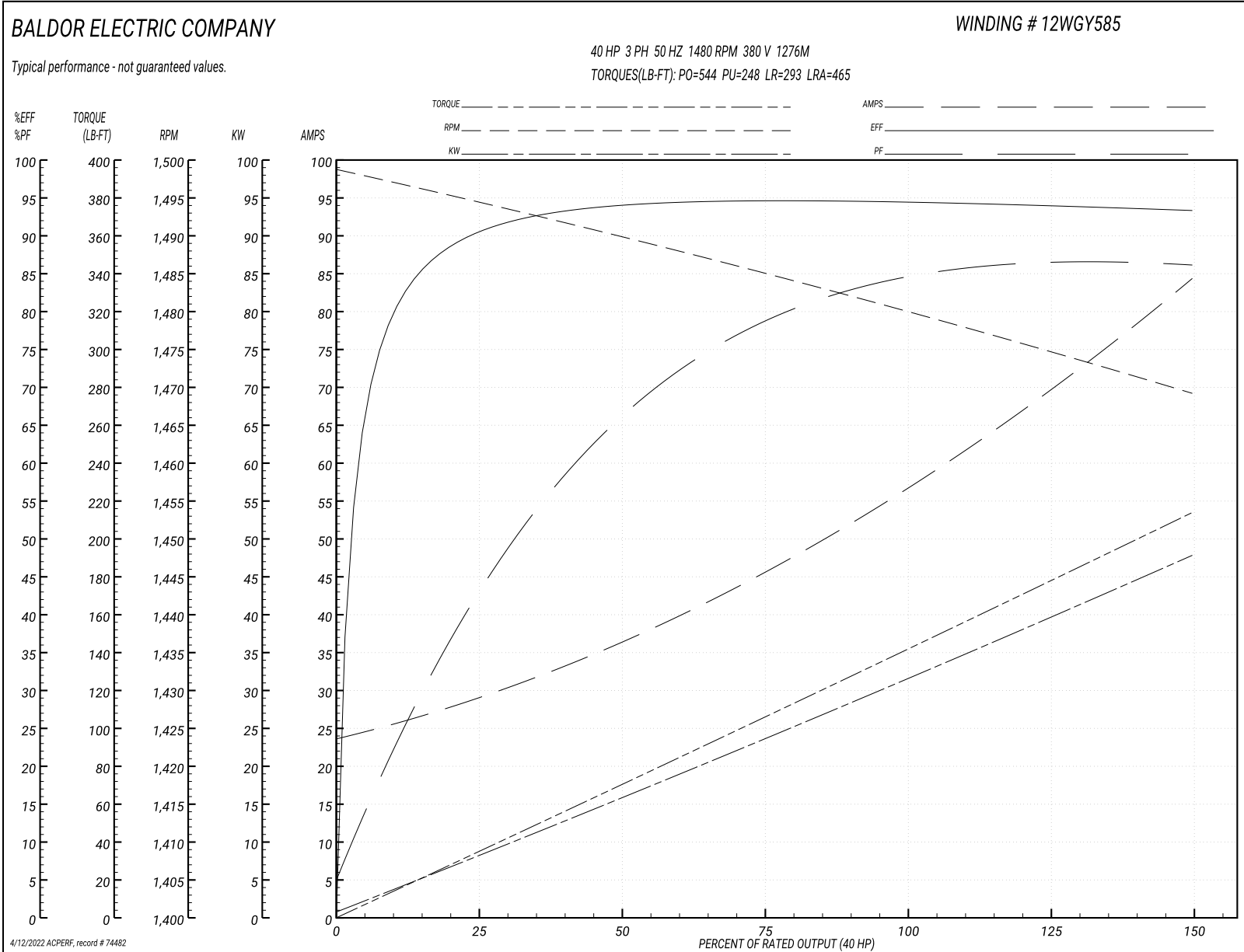
Typical performance - not guaranteed values

<b>Winding: 12WGY585-R011</b>		<b>Type: 1276M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	50//40		<b>Full Load Torque</b>	142 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	118/59//114/57		<b>Breakdown Torque</b>	544 LB-FT	
<b>R.P.M.</b>	1775//1475		<b>Pull-up Torque</b>	248 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	293 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	465 A
<b>Service Factor (S.F.)</b>	1		<b>No-load Current</b>	24.51 A	
<b>NEMA Nom. Eff.</b>	94.5	<b>Power Factor</b>	84	<b>Line-line Res. @ 25°C</b>	0.0936 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	52°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	63°C	
			<b>Locked-rotor Power Factor</b>	29.3	
			<b>Rotor inertia</b>	10.1 LB-FT <sup>2</sup>	

**Load Characteristics 380 V, 50 Hz, 40 HP**

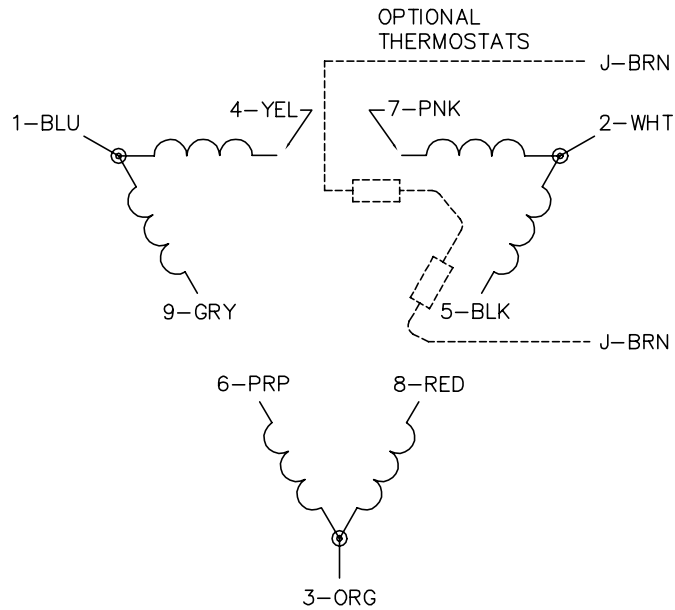
<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	45	67	78	84	86	87
<b>Efficiency</b>	90.3	93.7	94.6	94.3	94.2	93.2
<b>Speed</b>	1494	1490	1485	1480	1475	1469
<b>Line amperes</b>	27.9	35.86	45.89	57.36	70.22	83.76

Performance Graph at 380V, 50Hz, 40.0HP Typical performance - Not guaranteed values

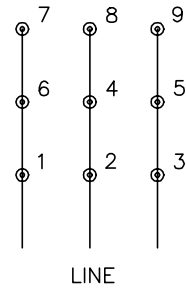




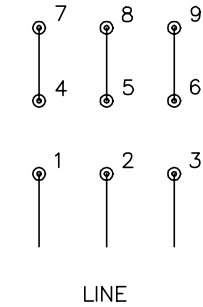
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

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