ABB BALDOR RELIANCE

Customer information packet

ECP3664T-4

2HP, 1165RPM, 3PH, 60HZ, 184T, 0642M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSA US
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	1.8
Current @ Voltage	3.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AA
Type	AC
Mech. spec.	06H483
Base	
Status	PRD/A
Elec. spec.	06WGX234
Layout	06LYH483
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	12-02-2010

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.93 IN
Power Factor	68
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1165 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3257								
CAT.NO.	ECP3664T-4							
SPEC.	06H483X234G1							
HP	2 TE							
VOLTS	460							
AMP	3.2							
RPM	1165							
FRAME	184T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6206	**ODE**	6206					
NEMA-NOM-EFF	88.5	**PF**	68					
G.MIN.EFF	88.5	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	06H483X234G1				
D.E. BRG.	30BC02XP30X				
O.D.E. BRG.	30BC02XP30X				
GREASE	POLYREX EM				
RPM MAX	1800	**MAX. KVAR**	1		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1.8	**CT HZ TO**	60		
VT HZ FROM	0-	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

Parts List

Part number	Description	Quantity
SA213041	SA 06H483X234G1	1.000 ea
RA200268	RA 06H483X234G1	1.000 ea
36FN3000B01	EXFN, PLASTIC, 6.00 OD, .912 ID	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1000A02G	CONDUIT BOX, MACH GRAY	1.000 ea
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 ea
51XF2520A16	SCREW,HEX SER SLT HD,ZN 1/4-20X1.00LG TD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
36FE1100B72G	FREP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36PE1100A29G	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
06FH1004A01G	FAN HOUSING MACH, W/GRAY EPOXY	1.000 ea
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	3.000 ea
06CB1502G	LIPPED CONDUIT BOX LID CAST, GRAY EPOXY	1.000 ea
06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea

HA1005A22	SLINGER, OD 2.00, ID 1.14, 206 BRG, GM	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN 8	0.028 ga
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP3257	SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM	1.000 ea
NP3260	SS CP SUPER-E AUX DATA INFORMATION	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

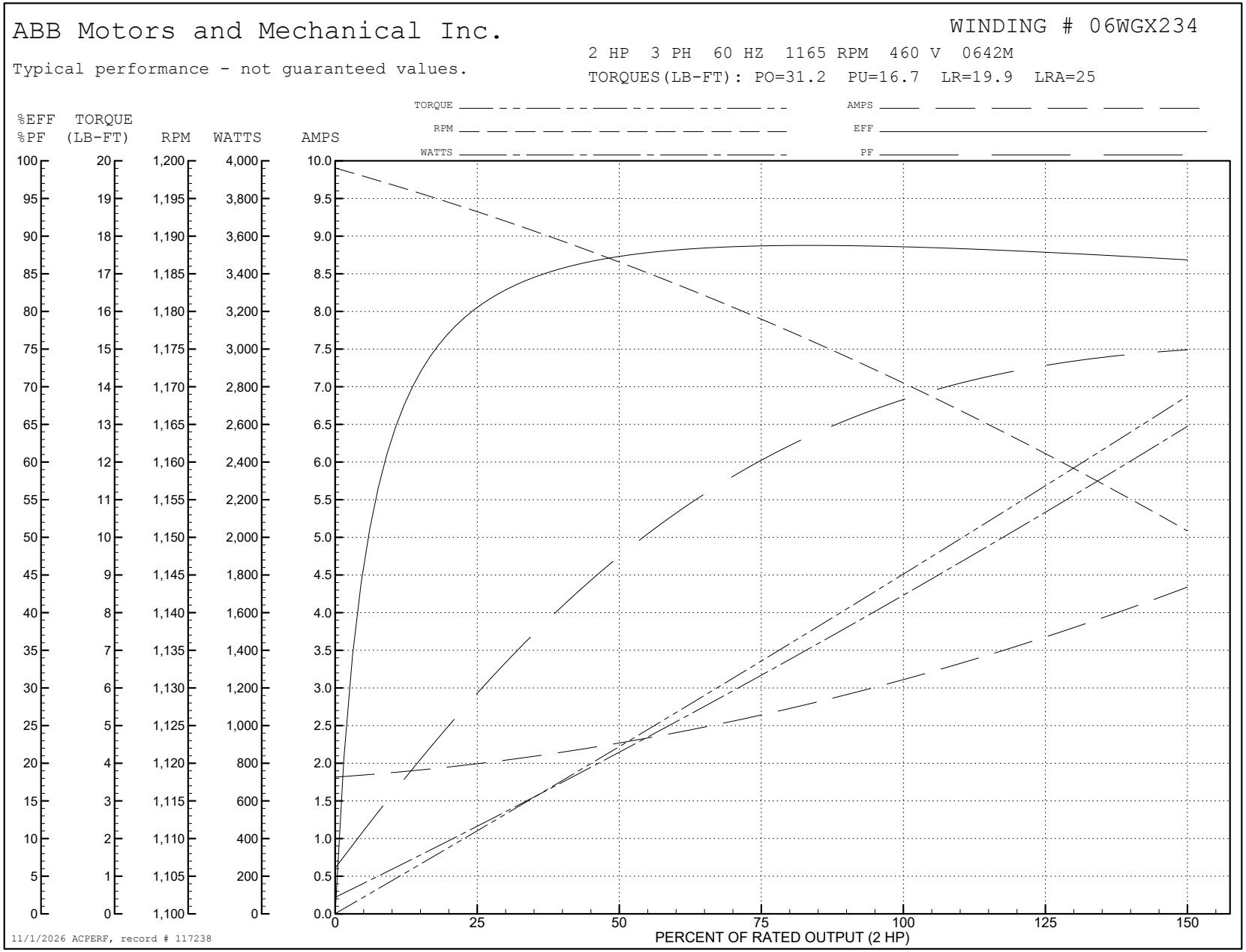
AC Induction Motor Performance Data
Record # 117238
Typical performance - not guaranteed values

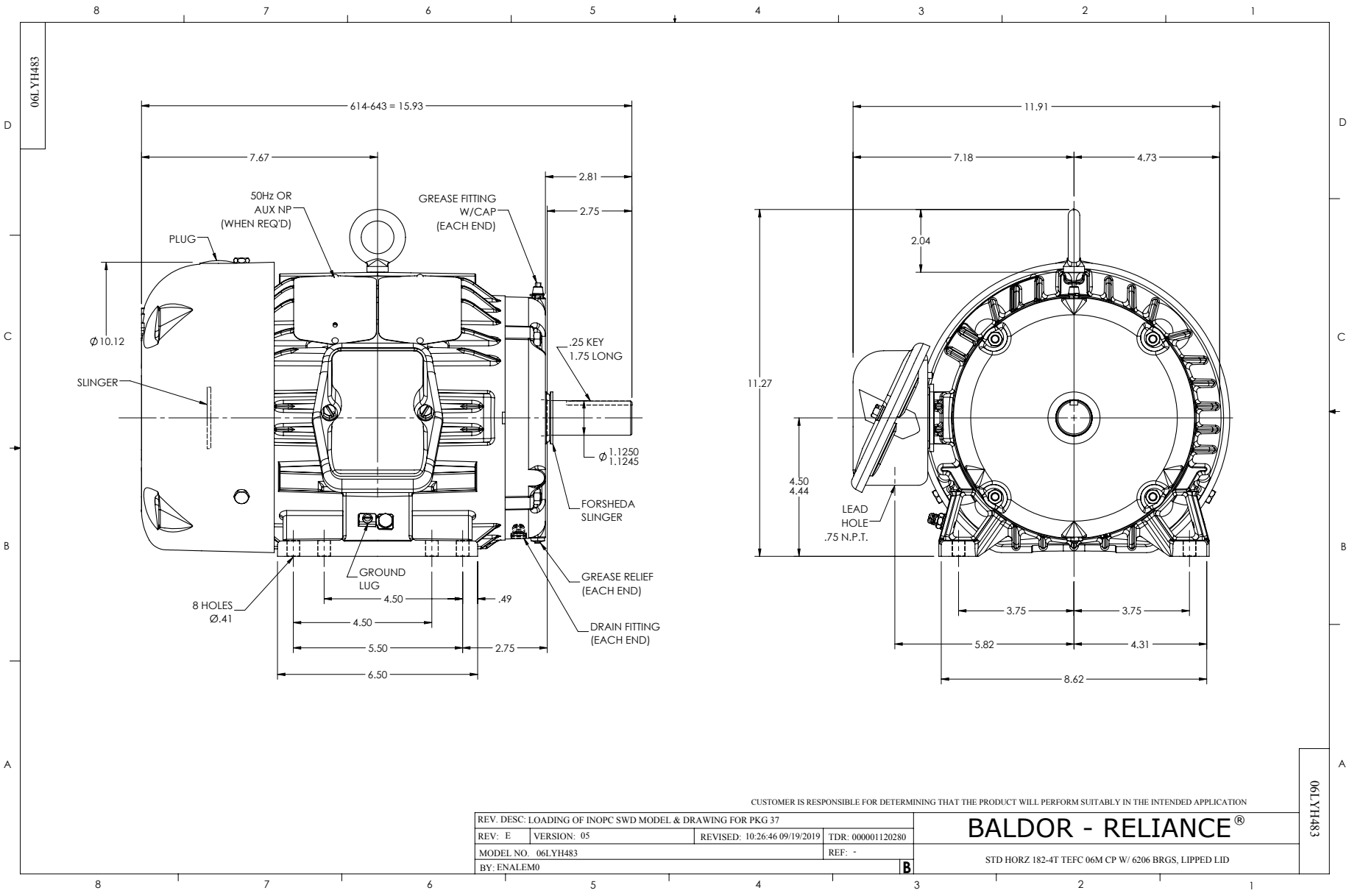
Winding: 06WGX234-R018	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	9.057 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			3.2	**Breakdown Torque**	31.2 LB-FT
R.P.M.			1165	**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**	25 A
Service Factor (S.F.)			1.15	**No-load Current**	1.84 A
NEMA Nom. Eff.	88.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	5.4163 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	26°C
S.F. Amps				**Temp. Rise @ S.F. Load**	31°C
				Locked-rotor Power Factor	28.5
				Rotor inertia	0.395 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

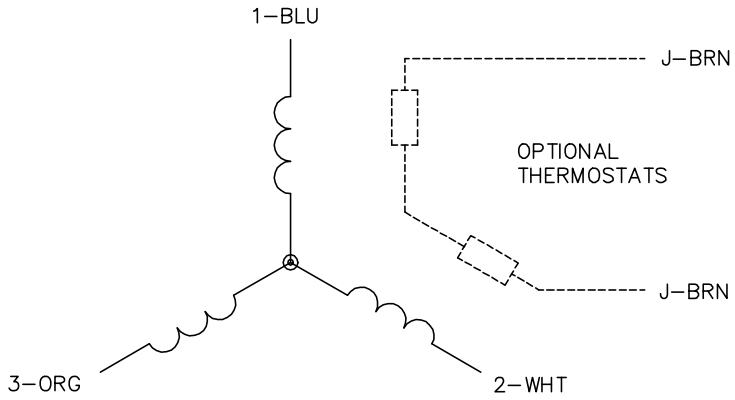
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	48	60	68	73	75	71
Efficiency	80.6	87.1	88.6	88.5	88	86.7	88.3
Speed	1193.2	1186.2	1178.6	1170.4	1161.3	1150.7	1165
Line amperes	1.97	2.26	2.67	3.14	3.68	4.33	3.46

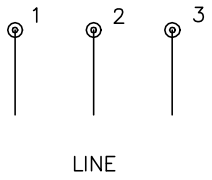

ABB Motors and Mechanical Inc.
WINDING # 06WGX234
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M
TORQUES(LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=25
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/1/2026 ACPERF, record # 117238


06LYH483
614-643 = 15.93
7.67
2.81
2.75
50Hz OR
AUX NP
(WHEN REQ'D)
PLUG
GREASE FITTING
W/CAP
(EACH END)
Ø10.12
SLINGER
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
FORSHEDA
SLINGER
GROUND
LUG
GREASE RELIEF
(EACH END)
8 HOLES
Ø.41
4.50
.49
4.50
DRAIN FITTING
(EACH END)
5.50
2.75
6.50
11.91
7.18
4.73
2.04
11.27
4.50
4.44
LEAD
HOLE
.75 N.P.T.
3.75
3.75
5.82
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: E
VERSION: 05
REVISED: 10:26:46 09/19/2019
TDR: 000001120280
MODEL NO. 06LYH483
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 06M CP W/ 6206 BRGS, LIPPED LID
06LYH483

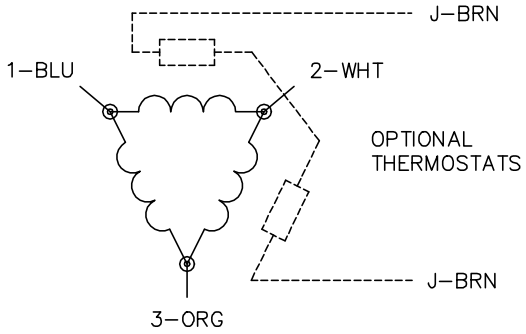
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1