

**BALDOR® • RELIANCE** 

**Product Information Packet**

**CTM1765T**

**40/10HP, 1775/885RPM, 3PH, 60HZ, 324T, TEFC**

Part Detail							
Revision:	V	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGW968	CD Diagram:	CD0032	Mfg Plant:	
Mech. Spec:	12F707	Layout:	12LYF707	Poles:	04/08	Created Date:	10-29-2009
Base:	RG	Eff. Date:	09-08-2023	Leads:	6#8		

Specs			
Catalog Number:	CTM1765T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	324T	Inverter Code:	Not Inverter
Frame Material:	Iron	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	10.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
	40.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 8 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	1262M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Product Family:	Super-E Chemical Processing
	CSA EEV	Pulley End Bearing Type:	Ball
	NEMA_PREMIUM	Pulley Face Code:	Standard
	UR	Pulley Shaft Indicator:	Standard
Auxillary Box:	No Auxillary Box	Rodent Screen:	None
Auxillary Box Lead Termination:	None	Shaft Extension Location:	Pulley End
Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding

<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Rotation:</b>	Reversible
<b>Blower:</b>	None	<b>Shaft Slinger Indicator:</b>	Shaft Slinger
<b>Current @ Voltage:</b>	48.000 A @ 460.0 V	<b>Speed Code:</b>	2S-1W-VT
<b>Design Code:</b>	A	<b>Motor Standards:</b>	NEMA
<b>Drip Cover:</b>	No Drip Cover	<b>Starting Method:</b>	Direct on line
<b>Duty Rating:</b>	CONT	<b>Thermal Device - Bearing:</b>	None
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Winding:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Face Code:</b>	Standard	<b>Winding Thermal 1:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 2:</b>	None

Nameplate NP2178												
CAT.NO.	CTM1765T											
SPEC.	12F707W968											
HP	40/10											
VOLTS	460											
AMP	48/18.6											
RPM	1760/870											
FRAME	324T					HZ	60			PH	3	
SER.F.	1.15			CODE	H		DES	A		CL	F	
NEMA-NOM-EFF				PF								
RATING	40C AMB-CONT											
CC												
DE	6312					ODE	6312					
ENCL	TEFC			SN								

Parts List		
Part Number	Description	Quantity
SA187301	SA 12F707W968	1.000 EA
RA175068	RA 12F707W968	1.000 EA
10CB1000A04P	KO BOX, MACH W/2.00 NPT W/EPOXY PRIMER	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
HA4017A10	1/8X1.25 GREASE EXT (F/S)	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HA3400A13	STUD, 1/2-13 X 7" WELKER	4.000 EA
HA1005A06	SLINGER, OD 3.62, ID 2.15	1.000 EA
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
12EP1106A40P	PUEP, MACH FOR OIL SEAL W/EPOXY PRIMER	1.000 EA
12FH1002A33P	FAN COVER, MACH ,EPOXY PRIMER	1.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW4600A91	SEAL 2.125 X 2.875 X 0.438 SINGLE LIP	1.000 EA
HW4600B37	SEAL 2.250 X 3.000 X .375 SINGLE LIP	1.000 EA
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	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
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5001A14	DYNAPRO SEALANT, CP MTR VC#2508050 (603	0.030 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
12EP1111A17GP6	FR ENDPLATE, MACH W/EPOXY PRIMER & PAINT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 LB
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA

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MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN 8	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 EA
LC0032	CONNECTION LABEL	1.000 EA
NP2178	SS CP SUPER-E UL CC	1.000 EA
12PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 EA

**AC Induction Motor Performance Data**

Record # 3275

Typical performance - not guaranteed values

Winding: 12WGW968-R001		Type: 1262M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Speed Connection</b>	
Rated Output (HP)	40/10	Full Load Torque	119 LB-FT	
Volts	460	Start Configuration	direct on line	
Full Load Amps	48/18.6	Breakdown Torque	382 LB-FT	
R.P.M.	1760/870	Pull-up Torque	147 LB-FT	
Hz	60 Phase	Locked-rotor Torque	196 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	337 A	
Service Factor (S.F.)	1.15	No-load Current	16.2 A	
NEMA Nom. Eff.	0 Power Factor	Line-line Res. @ 25°C	0.178 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	61°C	
S.F. Amps		Temp. Rise @ S.F. Load	69°C	

**Load Characteristics 460 V, 60 Hz, 40 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	76	83	86	87	87	87
Efficiency	80	87.8	90.3	91.1	91.3	90.8	91.2
Speed	1795	1788	1784	1779	1775	1769	1777
Line amperes	20.6	28.5	37.9	48.2	59.4	71.3	54.9



**AC Induction Motor Performance Data**

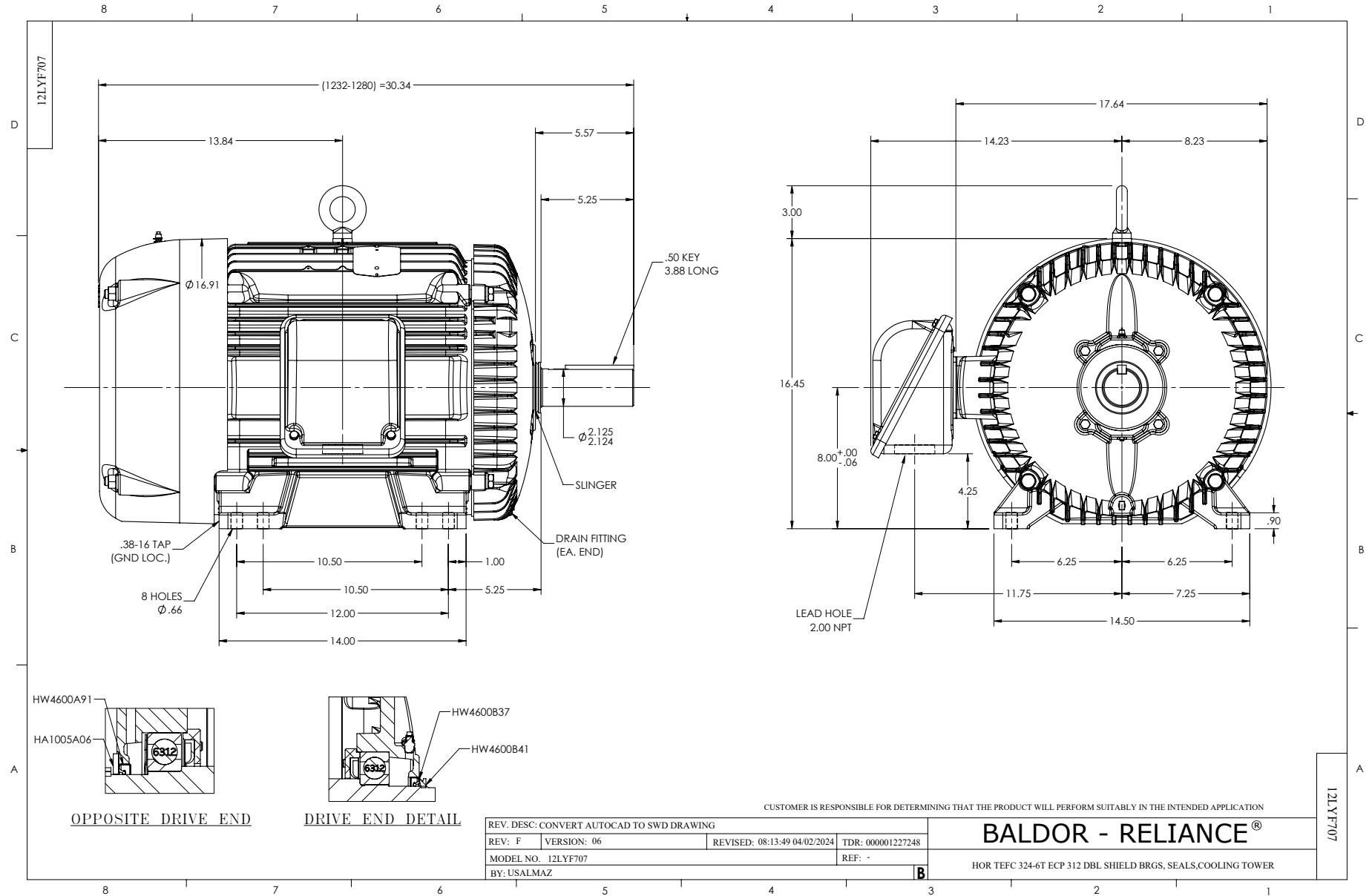
Record # 3276

Typical performance - not guaranteed values

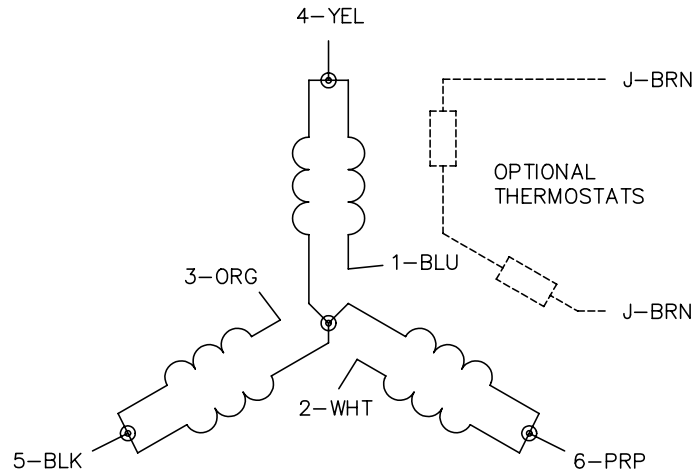
<b>Winding: 12WGW968-R001</b>		<b>Type: 1262M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: Low Speed Connection</b>		
<b>Rated Output (HP)</b>	40/10	<b>Full Load Torque</b>	60 LB-FT		
<b>Volts</b>	460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	48/18.6	<b>Breakdown Torque</b>	169 LB-FT		
<b>R.P.M.</b>	1760/870	<b>Pull-up Torque</b>	61 LB-FT		
<b>Hz</b>	60 Phase	3	<b>Locked-rotor Torque</b>	71 LB-FT	
<b>NEMA Design Code</b>	B	<b>KVA Code</b>	H	<b>Starting Current</b>	79 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	12.2 A	
<b>NEMA Nom. Eff.</b>	0	<b>Power Factor</b>	0	<b>Line-line Res. @ 25°C</b>	0.682 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	37°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	42°C	

**Load Characteristics 460 V, 60 Hz, 10 HP**

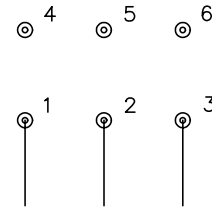
<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	26	40	51	58	63	65	61
<b>Efficiency</b>	72.4	82.8	86.5	87.7	88.1	87.7	87.9
<b>Speed</b>	896	894	891	889	886	882	887
<b>Line amperes</b>	12.9	14.3	16.2	18.6	21.5	24.8	20.34



CD0032

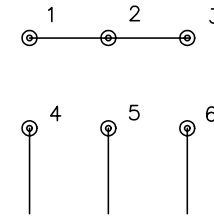


LOW SPEED  
(1Y)



LINE

HIGH SPEED  
(2Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032

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