

ABB BALDOR RELIANCE III

Customer information packet

CTM1765T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ 40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA UR
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
Current @ Voltage	48.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.6 a
Insulation Class	F

Part Detail

Revision	W
Type	AC
Mech. spec.	12F707
Base	
Status	PRD/A
Elec. spec.	12WGW968
Layout	12LYF707
Eff. date	10-16-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#8
Proprietary	False
Created date	10-29-2009

Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1262M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	30.28 IN
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm 870 rpm
Speed Code	2S-1W-VT
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	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						

AC Induction Motor Performance Data

Record # 3275

Typical performance - not guaranteed values

Winding: 12WGW968-R001			Type: 1262M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Speed Connection		
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	3	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

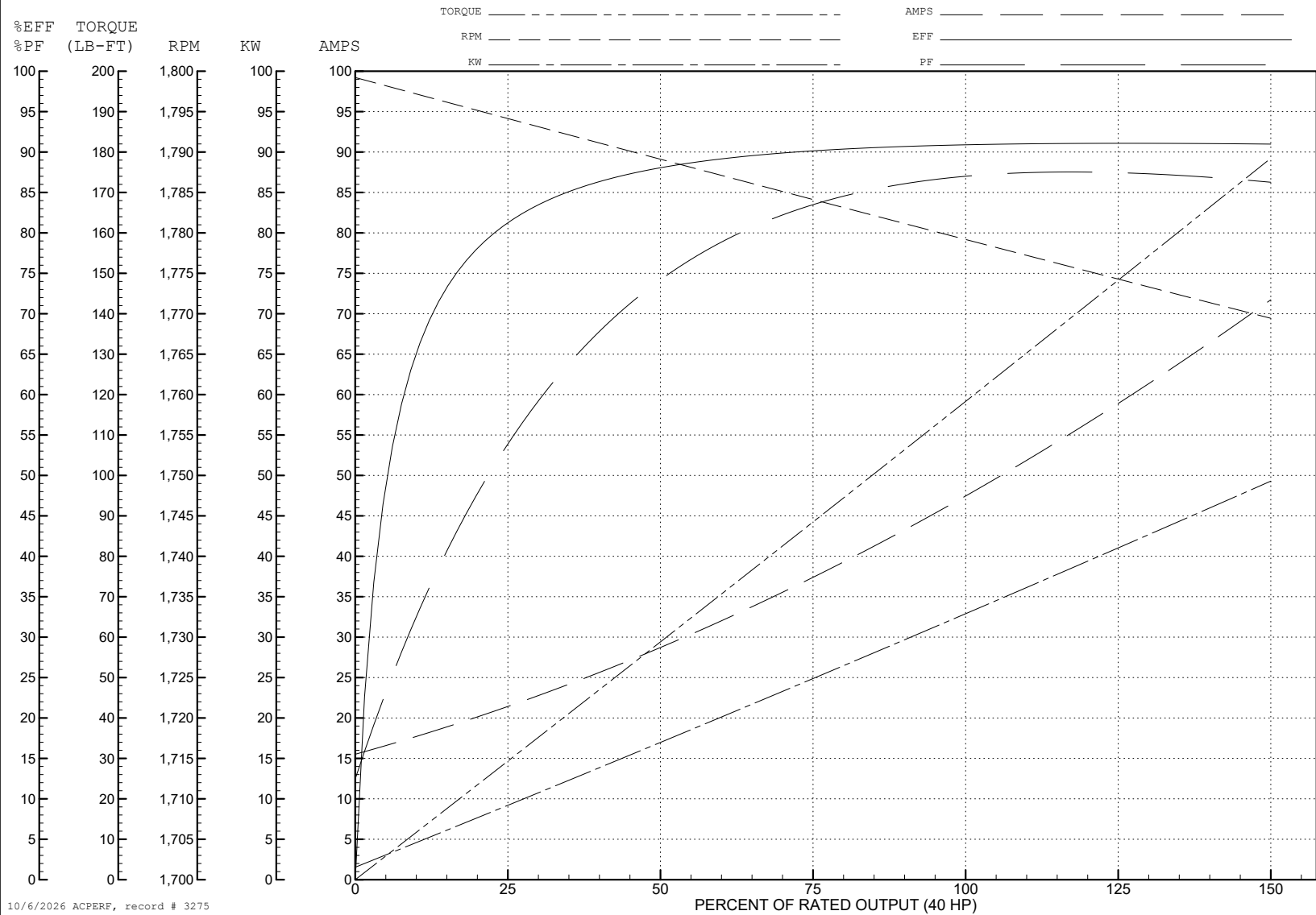
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WINDING # 12WGW968

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1779 RPM 460 V 1262M

TORQUES (LB-FT): PO=382 PU=147 LR=196 LRA=337



AC Induction Motor Performance Data

Record # 3276

Typical performance - not guaranteed values

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

Load Characteristics 460 V, 60 Hz, 10 HP

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

ABB Motors and Mechanical Inc.

WINDING # 12WGW968

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 889 RPM 460 V 1262M

TORQUES (LB-FT): PO=169 PU=61 LR=71 LRA=79

