

ABB BALDOR RELIANCE III

Customer information packet

CTM2334T

20HP, 1760RPM, 3PH, 60HZ, 256T, 0760M, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	256T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	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	54.000 A @ 208.0 V 50.000 A @ 230.0 V 25.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	07N395
Base	
Status	PRD/A
Elec. spec.	07WGX826
Layout	07LYN395
Eff. date	08-17-2023
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	08-14-2015

High Voltage Full Load Amps	25.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0760M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.91 IN
Power Factor	83
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP1258									
CAT.NO.	CTM2334T								
SPEC.	07N395X826H1								
HP	20								
VOLTS	230/460								
AMP	50/25								
RPM	1760								
FRAME	256T		HZ	60		PH		3	
SER.F.	1.15		CODE	J	DES	A		CL	F
NEMA-NOM-EFF	91		PF	83					
RATING	40C AMB-CONT								
CC									
DE	6309		ODE	6206					
ENCL	TEAO		SN						

Accessories

Part number	Description	Multiplier
37-1302	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 21241

Typical performance - not guaranteed values

Winding: 07WGX826-R001			Type: 0760M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		20	Full Load Torque		59.7 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		50/25	Breakdown Torque		204 LB-FT			
R.P.M.		1760	Pull-up Torque		78 LB-FT			
Hz	60 Phase	3	Locked-rotor Torque		122 LB-FT			
NEMA Design Code		A	KVA Code	J	Starting Current		174 A	
Service Factor (S.F.)		1.15	No-load Current		9.68 A			
NEMA Nom. Eff.		91	Power Factor		83	Line-line Res. @ 25°C		0.523 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		84°C	
S.F. Amps					Temp. Rise @ S.F. Load		110°C	
					Locked-rotor Power Factor		35	
					Rotor inertia		1.48 LB-FT2	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	77	82	83	84	83
Efficiency	89	92.1	92	91.1	89.7	87.8	90.3
Speed	1790	1780	1769	1757	1743	1727	1749
Line amperes	11.2	14.9	19.5	25	31.1	38	28.7

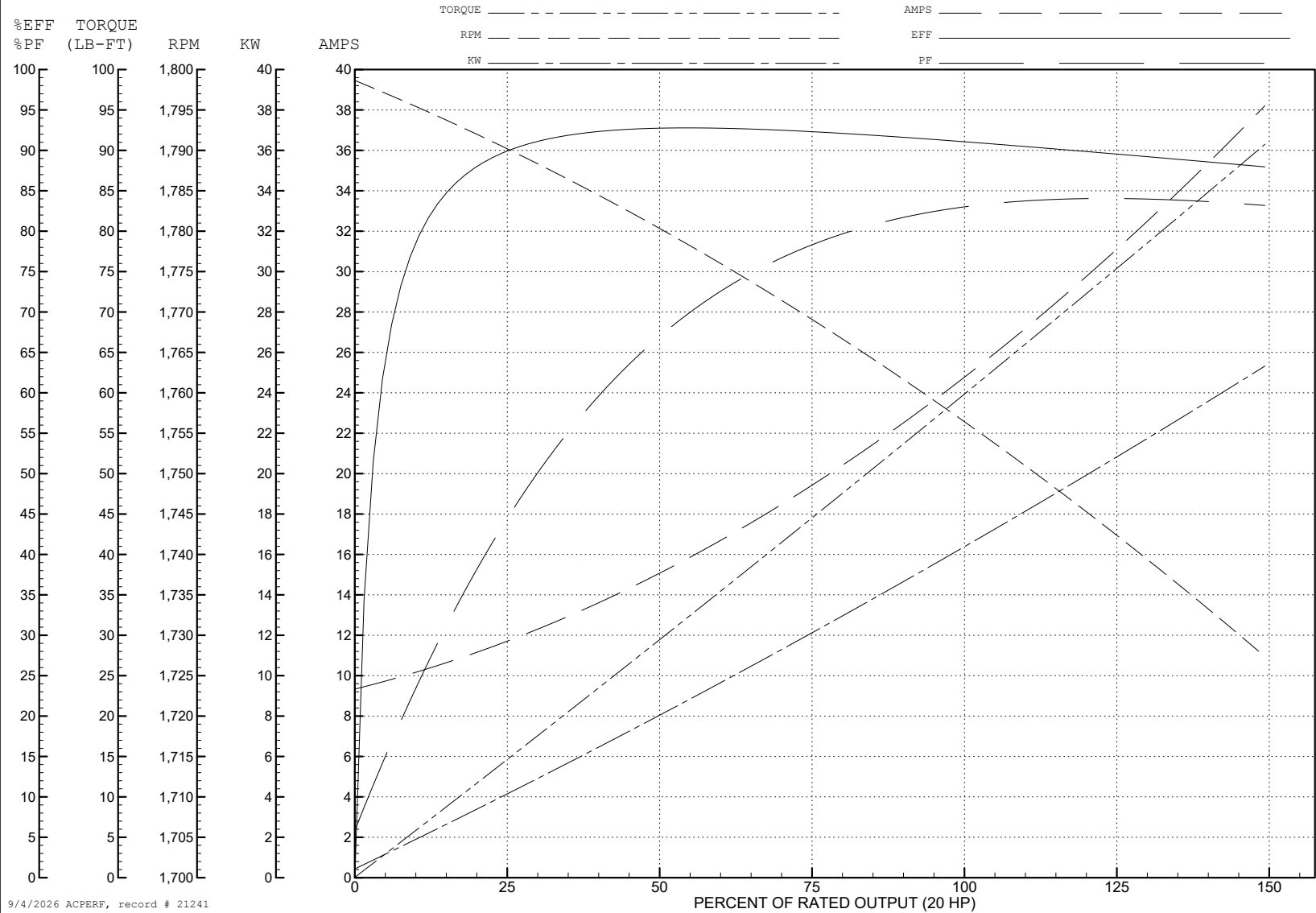
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WINDING # 07WGX826

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1760 RPM 460 V 0760M

TORQUES (LB-FT): PO=204 PU=78 LR=122 LRA=174



AC Induction Motor Performance Data

Record # 59958

Typical performance - not guaranteed values

Winding: 07WGX826-R001			Type: 0760M		Enclosure: TEFC		
Nameplate Data			460 V, 80 Hz: High Voltage Connection				
Rated Output (HP)		20	Full Load Torque		44.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		50/25	Breakdown Torque		110 LB-FT		
R.P.M.		1760	Pull-up Torque		33.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		52 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		120 A
Service Factor (S.F.)		1.15		No-load Current		4.42 A	
NEMA Nom. Eff.		91	Power Factor	83	Line-line Res. @ 25°C		0.5 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C	
S.F. Amps				Temp. Rise @ S.F. Load		80°C	
				Locked-rotor Power Factor		27.4	
				Rotor inertia		1.48 LB-FT2	

Load Characteristics 460 V, 80 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	79	95	95	93	90	87	91
Efficiency	92.3	93.9	93.7	92.3	90.5	88	91.2
Speed	2387	2374	2359	2343	2323	2298	2331
Line amperes	6.27	10.5	15.8	21.9	28.7	36.7	26

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WINDING # 07WGX826

Typical performance - not guaranteed values.

20 HP 3 PH 80 HZ 1760 RPM 460 V 0760M

TORQUES (LB-FT): PO=110 PU=33.3 LR=52 LRA=120

