

ABB BALDOR RELIANCE III

Customer information packet

M1762T

20/5HP, 1760/870RPM, 3PH, 60HZ, 284T, 1034M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284T
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	5.000 HP @ 60 HZ 20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
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	26.000 A @ 460.0 V
Design Code	B
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	9.4 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AG
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGW441
Layout	10LYC151
Eff. date	01-07-2026
CD Diagram	CD0032
Poles	04/08
Leads	6#10
Proprietary	False
Created date	01-01-0001

KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1034M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	27.76 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 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

NP1256L									
CAT.NO.	M1762T								
SPEC.	10C151W441								
HP	20/5								
VOLTS	460								
AMP	25/10								
RPM	1765/880								
FRAME	284T		HZ	60			PH	3	
SER.F.	1.15	CODE	G	DES	A	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6311		ODE	6309					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA013447	SA 10C151W441	1.000 ea
RA009644	RA 10C151W441	1.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10EP1106A01	FR ENDPLATE, MACH	1.000 ea
10XN3816K32	BOLT, 3/8-16X2 HH YZ(5)	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
10XN2520K36	1/4-20 X 2.00 HX HD SCRW GRADE 5, ZINC P	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10EP1105A01	PU ENDPLATE	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10FH4000	310 FAN HOUSING STAMPED, PRIMED W/O P SU	1.000 ea
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	4.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 ea
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb

HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
10GS1000	GASKET, CONDUIT BOX LID	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
10FN3001A01	EXTERNAL FAN	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
HA6390A01	#44, 3.12" DIA WORM DRIVE HOSE CLAMP	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.125 ga
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A07	1.000 ea
FE-0000022	ZRTG FE ASSEMBLY	1.000 ea
PE-0000013	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
10-1305	C FACE KIT	A8
10EP1502A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 33615

Typical performance - not guaranteed values

Winding: 10WGW441-R002			Type: 1034M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Speed Connection		
Rated Output (HP)		20/5		Full Load Torque		59.38 LB-FT
Volts		460		Start Configuration		direct on line
Full Load Amps		25/10		Breakdown Torque		132 LB-FT
R.P.M.		1765/880		Pull-up Torque		85.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		105 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		156 A
Service Factor (S.F.)		1.15		No-load Current		10.47 A
NEMA Nom. Eff.		0	Power Factor	Line-line Res. @ 25°C		0.592 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C
S.F. Amps				Temp. Rise @ S.F. Load		88°C
				Locked-rotor Power Factor		39.3
				Rotor inertia		2.73 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	79	83	85	84	86
Efficiency	83.6	89.3	90.4	89.8	89.1	86.9	87.4
Speed	1793	1786	1778	1767	1758	1747	1765
Line amperes	11.77	15.12	19.8	24.96	30.61	37.43	28.9

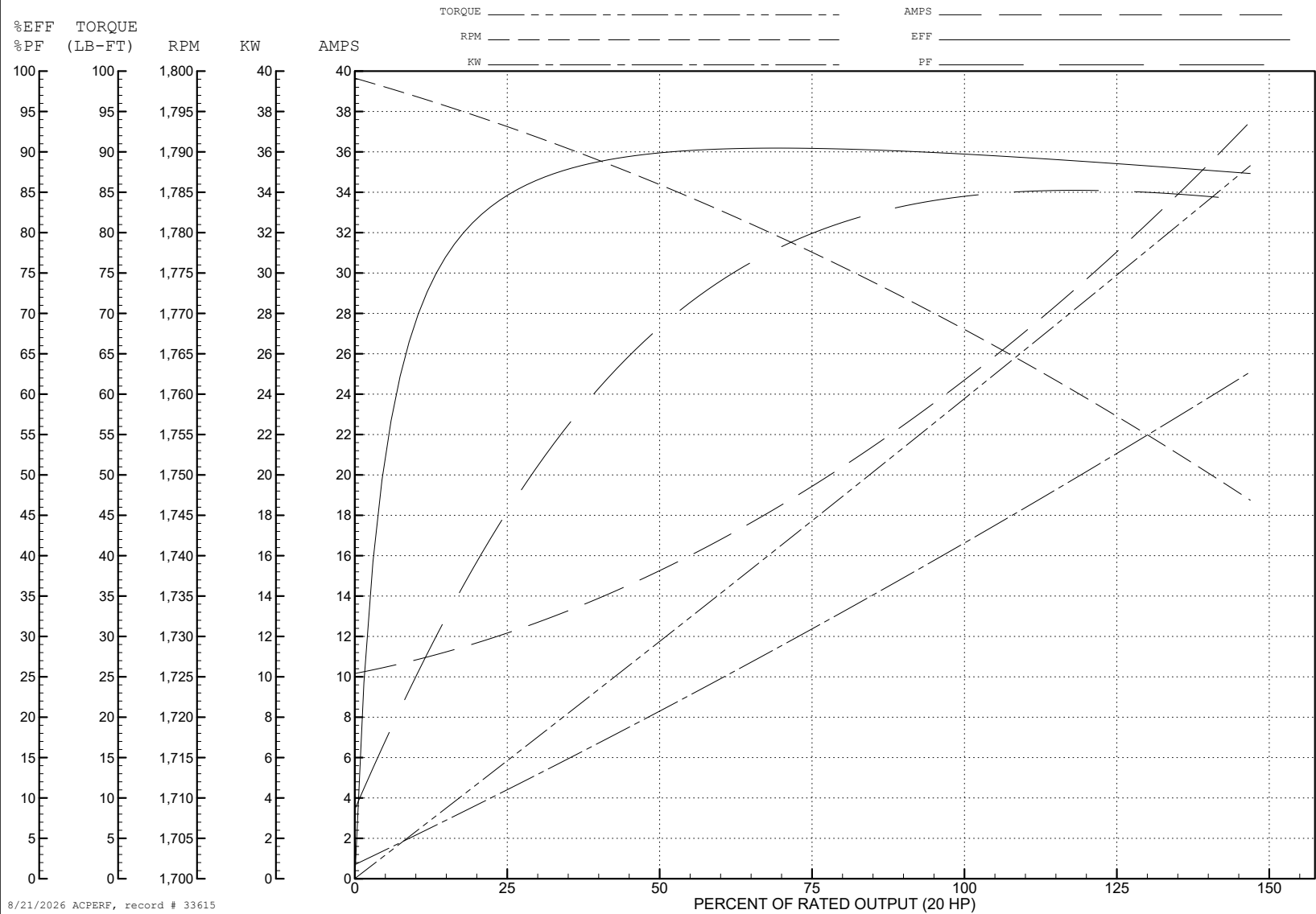
ABB Motors and Mechanical Inc.

WINDING # 10WGW441

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1767 RPM 460 V 1034M

TORQUES (LB-FT): PO=132 PU=85.7 LR=105 LRA=156



AC Induction Motor Performance Data

Record # 33616

Typical performance - not guaranteed values

Winding: 10WGW441-R002			Type: 1034M	Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Low Speed Connection				
Rated Output (HP)		20/5	Full Load Torque		31.26 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		25/10	Breakdown Torque		45.2 LB-FT		
R.P.M.		1765/880	Pull-up Torque		49.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		71.3 LB-FT	
NEMA Design Code		A	KVA Code	G	Starting Current		42.2 A
Service Factor (S.F.)		1.15		No-load Current		7.14 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		2.37 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		29°C	
S.F. Amps				Temp. Rise @ S.F. Load		39°C	
				Locked-rotor Power Factor		37.8	
				Rotor inertia		2.73 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	38	49	57	62	64	65
Efficiency	72.8	82.2	85.4	86.1	86	84.6	83.5
Speed	896	892	889	884	880	873	883
Line amperes	7.35	7.94	8.82	10	11.53	13.34	9.94

ABB Motors and Mechanical Inc.

WINDING # 10WGW441

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 884 RPM 460 V 1034M

TORQUES (LB-FT) : PO=45.2 PU=49.8 LR=71.3 LRA=42.2

