

ABB BALDOR RELIANCE III

Customer information packet

XM28262T

20//15HP, 1180//980RPM, 3PH, 60//50HZ, 286T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	286T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ 15.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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	6
Current @ Voltage	24.000 A @ 380.0 V 26.000 A @ 460.0 V 48.000 A @ 190.0 V 52.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGX978
Layout	10LYE106
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	05-05-2021

Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.61 IN
Power Factor	78
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP0887XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE		T3C			
SPEC.	10-0000-2093						INV.TYPE		PWM			
CAT.NO.	XM28262T						C HP FR		60	C HP TO		90
HP	20//15						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	52/26//48/24				MAG CUR		24.6/12.3					
RPM	1180//980				MX RPM		1800					
HZ	60//50	PH	3	CL	F	NOM.EFF.		93				
SER.F.	1.00	DES	A	SL HZ		1	WK2	7.59				
FRAME	286T	RATING		40C AMB-CONT								
	NEMA MG-1 PART 5, IP54											
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data

Record # 47246

Typical performance - not guaranteed values

Winding: 10WGX978-R014				Type: 1062M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20		Full Load Torque		89 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		52/26		Breakdown Torque		286.9 LB-FT	
R.P.M.		1180		Pull-up Torque		113 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		160.5 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		171.6 A	
Service Factor (S.F.)		1.15		No-load Current		12.3 A	
NEMA Nom. Eff.		93	Power Factor	Line-line Res. @ 25°C		0.362 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C	
S.F. Amps				Temp. Rise @ S.F. Load		59°C	
				Rotor inertia		7.59 LB-FT2	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	72	78	80	81	79
Efficiency	88.5	92.5	93.3	93.2	92.6	91.7	92.8
Speed	1195	1191	1187	1183	1178	1173	1180
Line amperes	13.6	16.9	21	25.9	31.4	37.7	29.2

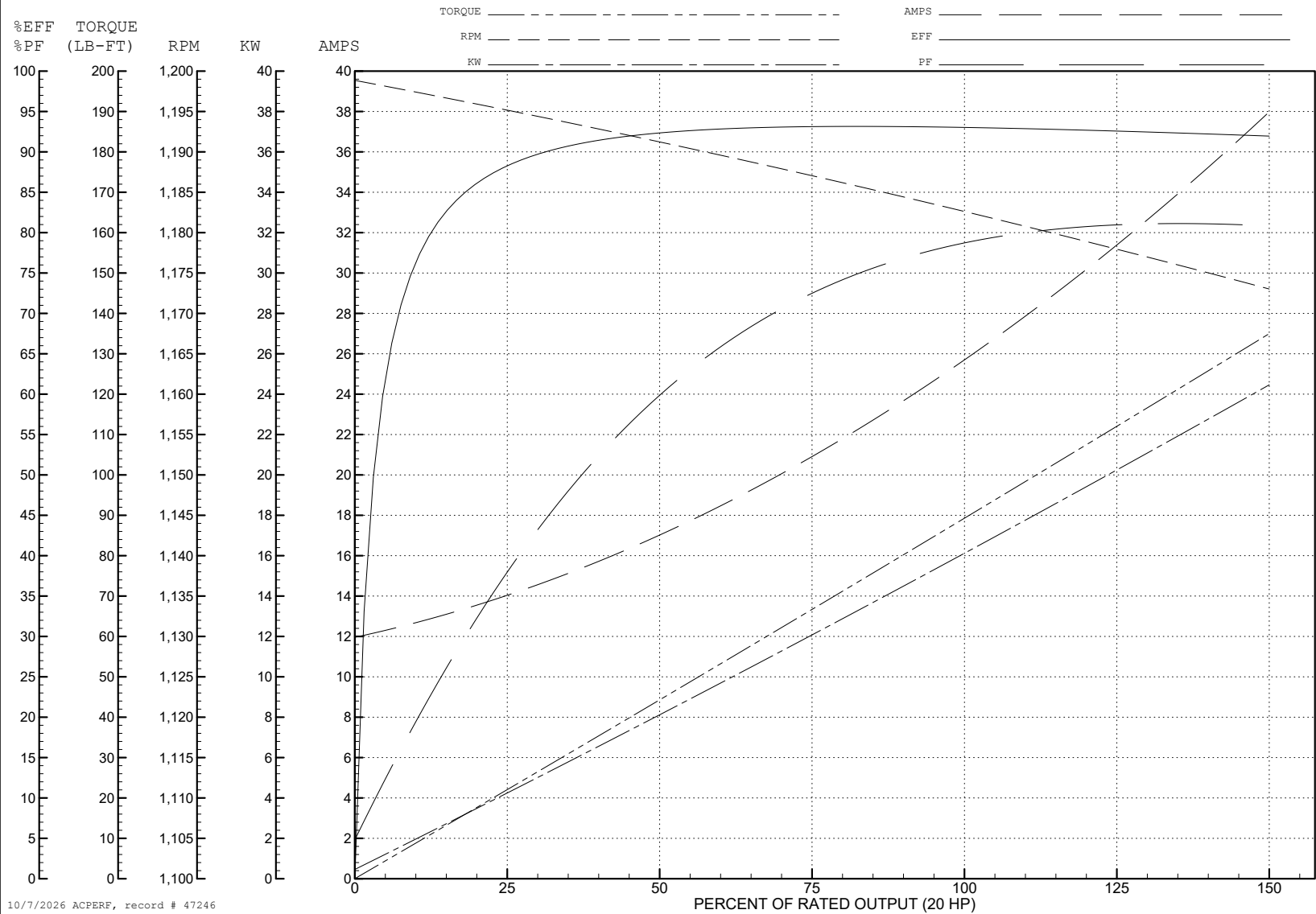
ABB Motors and Mechanical Inc.

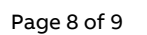
WINDING # 10WGX978

Typical performance - not guaranteed values.

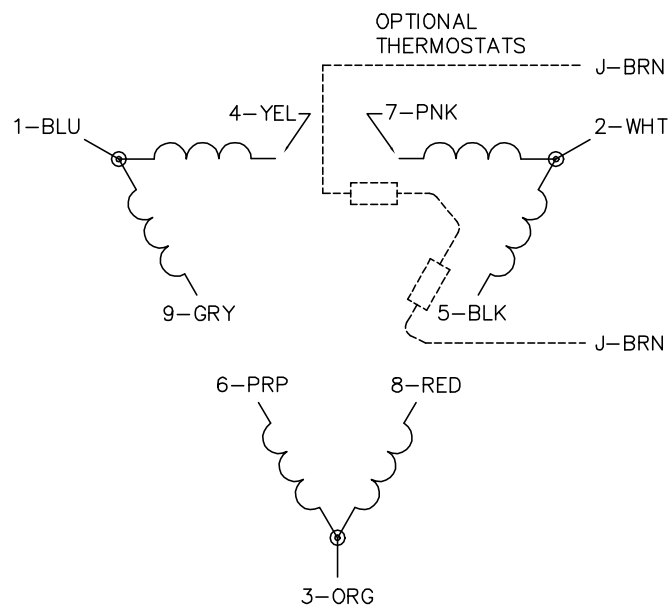
20 HP 3 PH 60 HZ 1180 RPM 460 V 1062M

TORQUES (LB-FT): PO=286.9 PU=113 LR=160.5 LRA=171.6

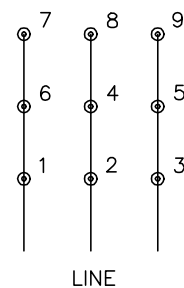




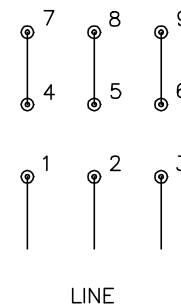
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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