

ABB BALDOR RELIANCE III

Customer information packet

EM7057T-I

15//10 NEMA MG-1 PT.5, IP55HP, 1175//985

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	284T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ 15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 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	42.000 A @ 208.0 V 42.000 A @ 230.0 V 36.000 A @ 190.0 V 21.000 A @ 460.0 V 18.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	S
Type	AC
Mech. spec.	10E950
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LYE950
Eff. date	06-13-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	04-22-2016

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	18.0 a
Insulation Class	F
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	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.61 IN
Power Factor	73
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
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	1175 rpm 985 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

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE	T3C				
SPEC.	10E950Y561G2											
CAT.NO.	EM7057T-I											
HP	15//10 NEMA MG-1 PT.5,IP55											
VOLTS	230/460//190/380											
AMPS	42/21//36/18											
RPM	1175//985				MOTOR WEIGHT			478				
HERTZ	60//50	PH	3	CL	F	DE BRG	6311					
SER.F.	1.15	DES	A	CODE	H	ODE BRG			6309			
FRAME	284T	GREASE		POLYREX EM								
RATING	40C AMB-CONT											
				NEMA-NOM-EFF			91.7		PF	73		
	55C AMB @ 1.0 SF,60C RISE											

AC Induction Motor Performance Data

Record # 56745

Typical performance - not guaranteed values

Winding: 10WGY561-R033		Type: 1046M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	15//10	Full Load Torque	66.68 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	42/21//36/18	Breakdown Torque	213 LB-FT
R.P.M.	1175//985	Pull-up Torque	93.1 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	114 LB-FT
NEMA Design Code	A KVA Code	Starting Current	144 A
Service Factor (S.F.)	1.15	No-load Current	12.4 A
NEMA Nom. Eff.	91.7 Power Factor	Line-line Res. @ 25°C	0.502 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	43°C
S.F. Amps		Temp. Rise @ S.F. Load	51°C
		Locked-rotor Power Factor	32.9
		Rotor inertia	5.63 lb-ft ²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	65	72	76	78	75
Efficiency	83	89.4	91.3	91.7	91.4	90.8	91.7
Speed	1196	1193	1189	1185	1181	1177	1181
Line amperes	13.2	15.1	17.9	21.3	25.3	29.6	23.4

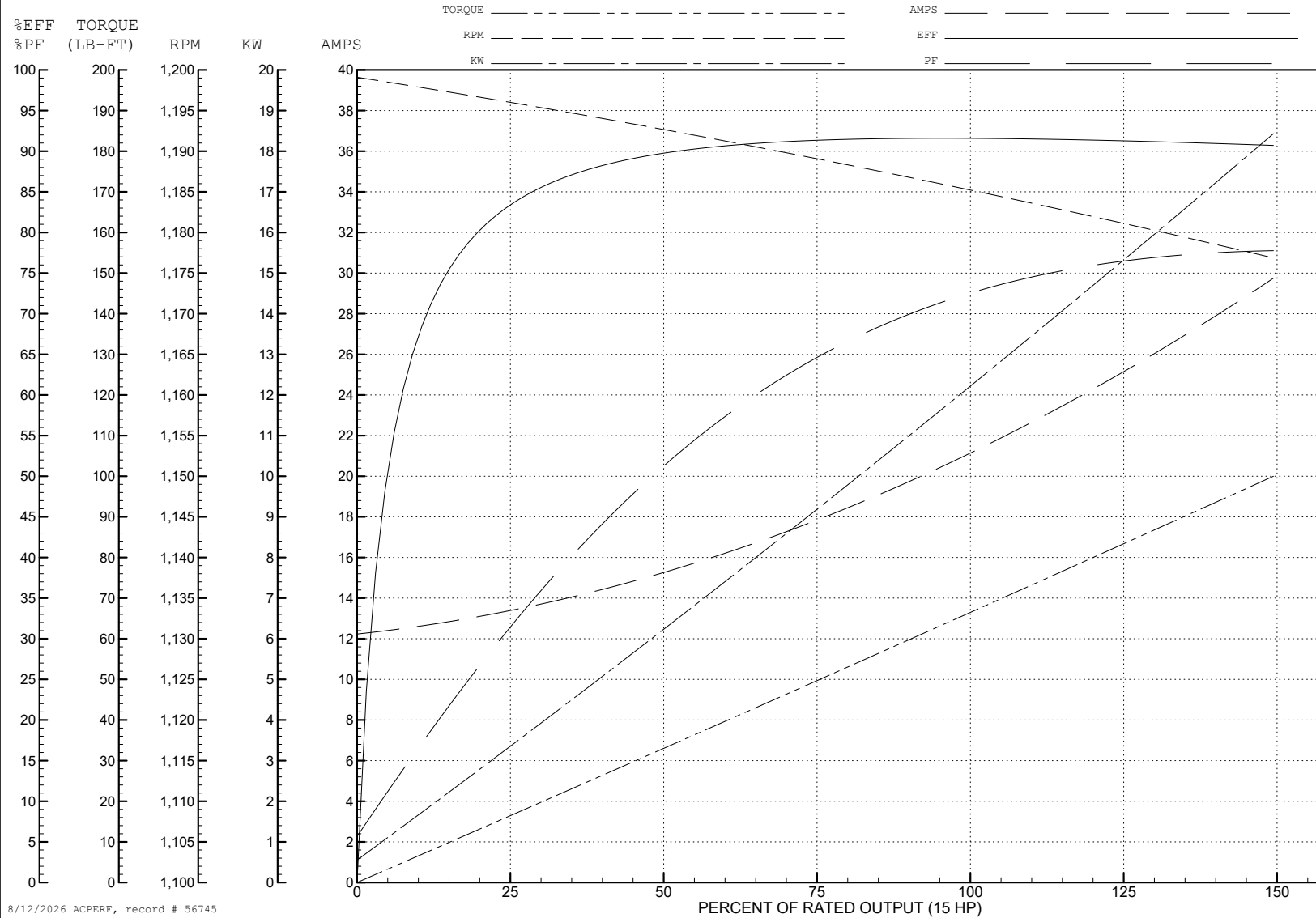
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WINDING # 10WGY561

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1185 RPM 460 V 1046M

TORQUES (LB-FT): PO=213 PU=93.1 LR=114 LRA=144



AC Induction Motor Performance Data

Record # 56746

Typical performance - not guaranteed values

Winding: 10WGY561-R033				Type: 1046M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		15//10		Full Load Torque		53.33 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		42/21//36/18		Breakdown Torque		205 LB-FT	
R.P.M.		1175//985		Pull-up Torque		95.7 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		117 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		139 A	
Service Factor (S.F.)		1.15		No-load Current		12.06 A	
NEMA Nom. Eff.		91.7	Power Factor	Line-line Res. @ 25°C		0.502 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C	
S.F. Amps				Temp. Rise @ S.F. Load		40°C	
				Locked-rotor Power Factor		36.5	
				Rotor inertia		5.63 lb-ft²	

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	46	59	67	72	76	71
Efficiency	80.7	88.1	90.4	91.1	91	90.5	90.7
Speed	997	994	991	988	985	981	985
Line amperes	12.64	14.01	16.05	18.57	21.57	24.81	20.1

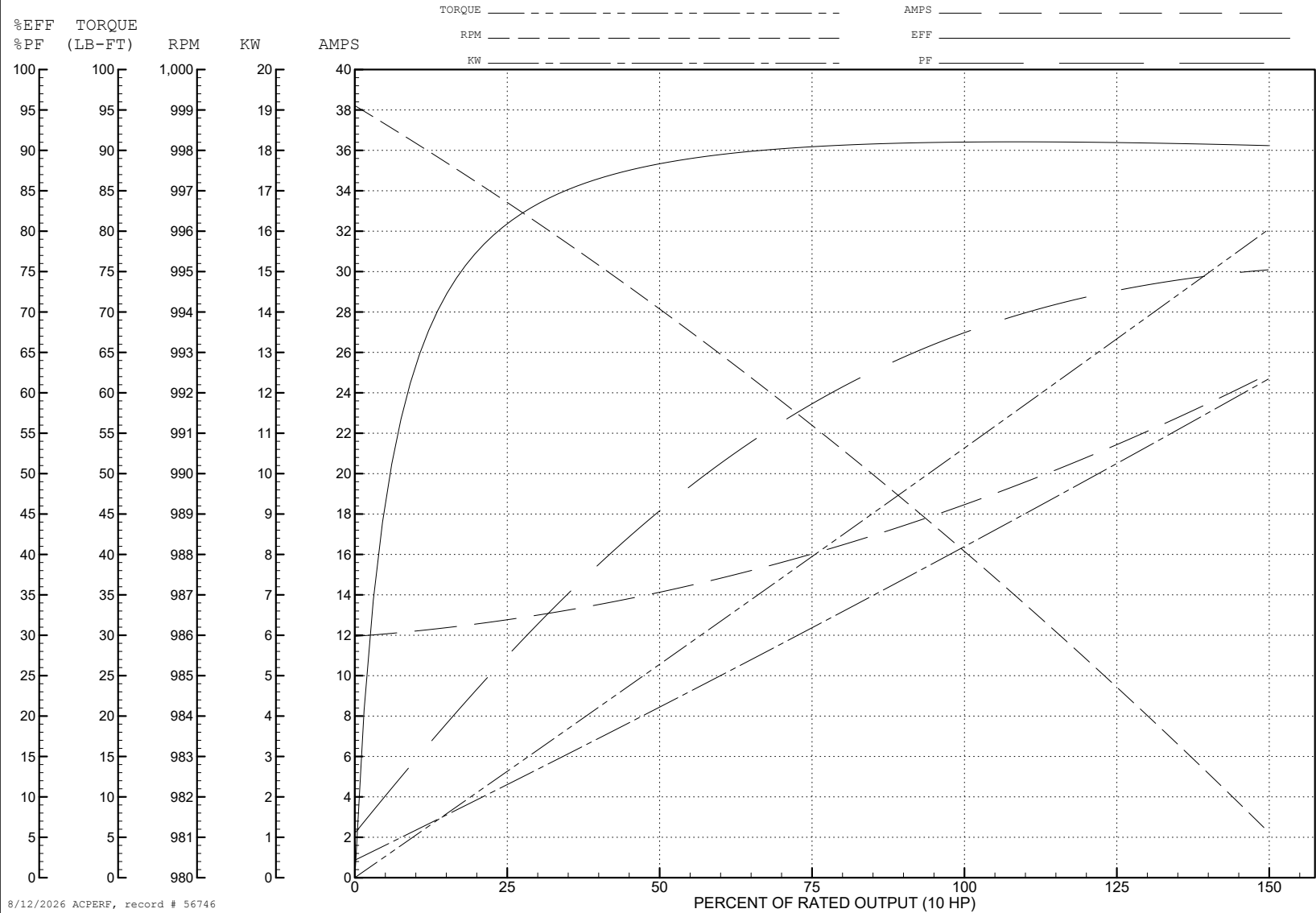
ABB Motors and Mechanical Inc.

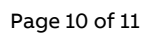
WINDING # 10WGY561

Typical performance - not guaranteed values.

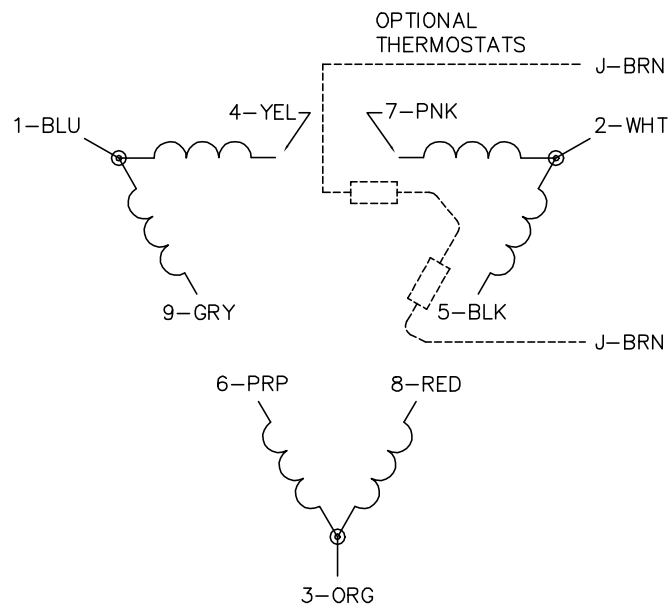
10 HP 3 PH 50 HZ 988 RPM 380 V 1046M

TORQUES (LB-FT): PO=205 PU=95.7 LR=117 LRA=139

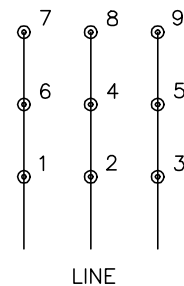




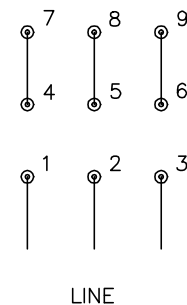
CD0180



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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