

ABB BALDOR RELIANCE III

Customer information packet

CDRX282524T

25HP, 3520//2930RPM, 3PH, 60HZ, 284TSC, XPFC,

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	284TSC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ 20.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	28.000 A @ 380.0 V 28.500 A @ 460.0 V 56.000 A @ 190.0 V 57.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY777
Layout	10LY-000-572
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	06-22-2019

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1038M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.23 IN
Power Factor	89
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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

NP1401XPSLEV													
NO.							CC	010A					
S/N							TEMP CODE	T3C					
SPEC.	10-0000-0835						INV.TYPE	PWM					
CAT.NO.	CDRX282524T						C HP FR	60	C HP TO	90			
HP	25//20						CT HZ FROM	6	CT HZ TO	60			
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60			
AMPS	57/28.5//56/28						MAG CUR	16.2/8.1					
RPM	3520//2930						MX RPM	5400					
HZ	60//50	PH	3	CL	F	NOM.EFF.	91.7						
SER.F.	1.00	DES	B	SL HZ	1.3	WK2	1.63						
FRAME	284TSC	RATING	40C AMB-CONT										
	55C AMB @ 1.0 SF, 60C RISE												
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55						

AC Induction Motor Performance Data

Record # 31465

Typical performance - not guaranteed values

Winding: 10WGY777-R001			Type: 1038M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25//20		Full Load Torque		37.4 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		57/28.5//56/28		Breakdown Torque		144 LB-FT		
R.P.M.		3520//2930		Pull-up Torque		50.1 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		64.7 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		177 A
Service Factor (S.F.)		1		No-load Current		8.07 A		
NEMA Nom. Eff.		91.7	Power Factor		89	Line-line Res. @ 25°C		0.294 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		57°C
						Locked-rotor Power Factor		24.1
						Rotor inertia		1.63 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	61	80	87	89	90	90
Efficiency	87.5	91.5	91.7	91.9	91.1	90
Speed	3576	3561	3543	3522	3499	3474
Line amperes	10.6	15.7	21.7	28.6	35.6	43.1

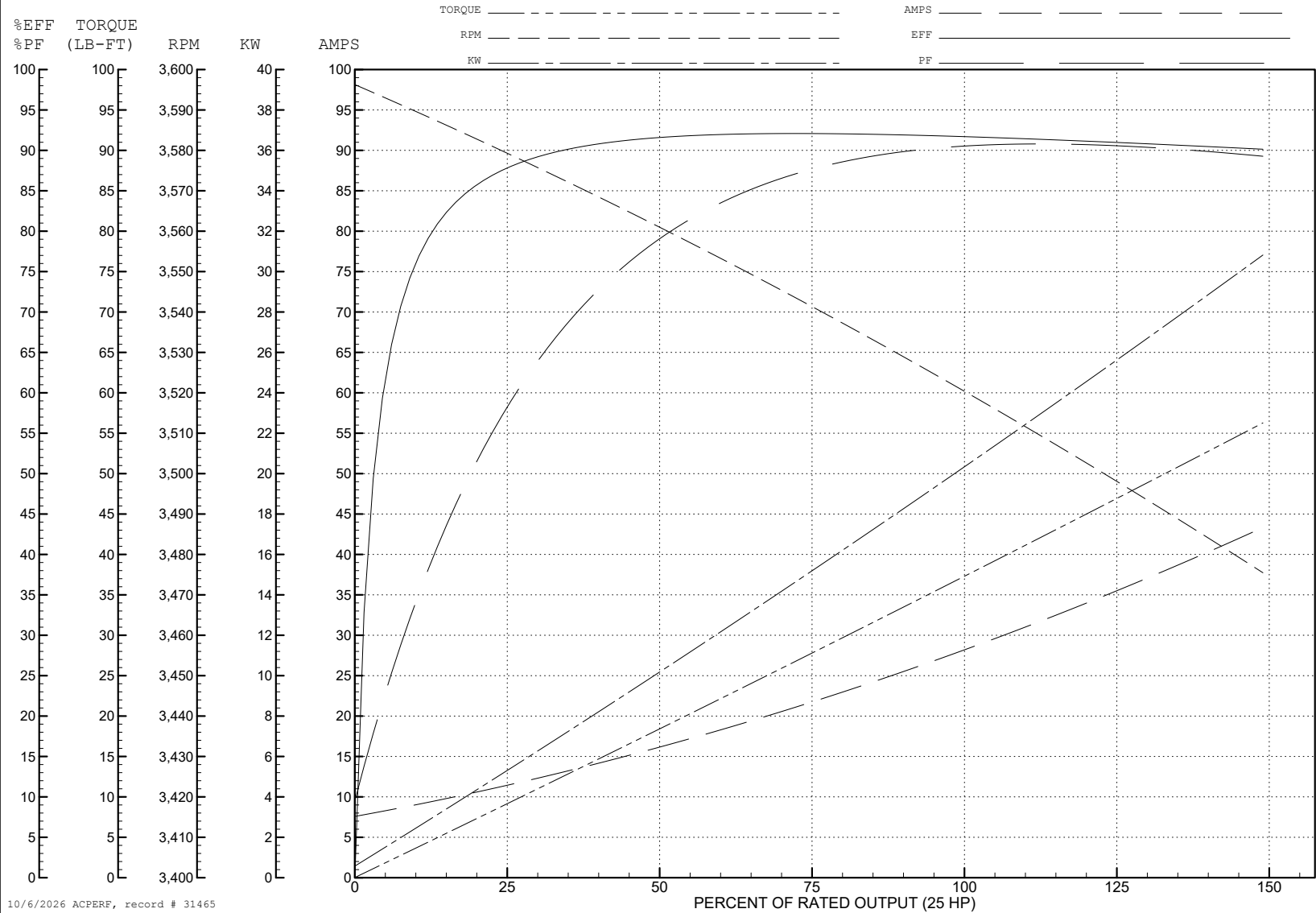
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WINDING # 10WGY777

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3522 RPM 460 V 1038M

TORQUES (LB-FT): PO=144 PU=50.1 LR=64.7 LRA=177



AC Induction Motor Performance Data

Record # 31466

Typical performance - not guaranteed values

Winding: 10WGY777-R001				Type: 1038M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		25//20		Full Load Torque		36 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		57/28.5//56/28		Breakdown Torque		139 LB-FT	
R.P.M.		3520//2930		Pull-up Torque		53.4 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		B		KVA Code		G	
Service Factor (S.F.)		1		No-load Current		7.96 A	
NEMA Nom. Eff.		91.7		Power Factor		89	
Rating - Duty		40C		AMB-CONT			
				Temp. Rise @ Rated Load		55°C	
				Locked-rotor Power Factor		27.2	
				Rotor inertia		1.63 LB-FT2	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	61	80	87	90	90	90
Efficiency	85.6	90.2	90.8	91	90	89
Speed	2978	2963	2946	2926	2905	2881
Line amperes	10.4	15.3	21.2	27.9	34.8	42.2

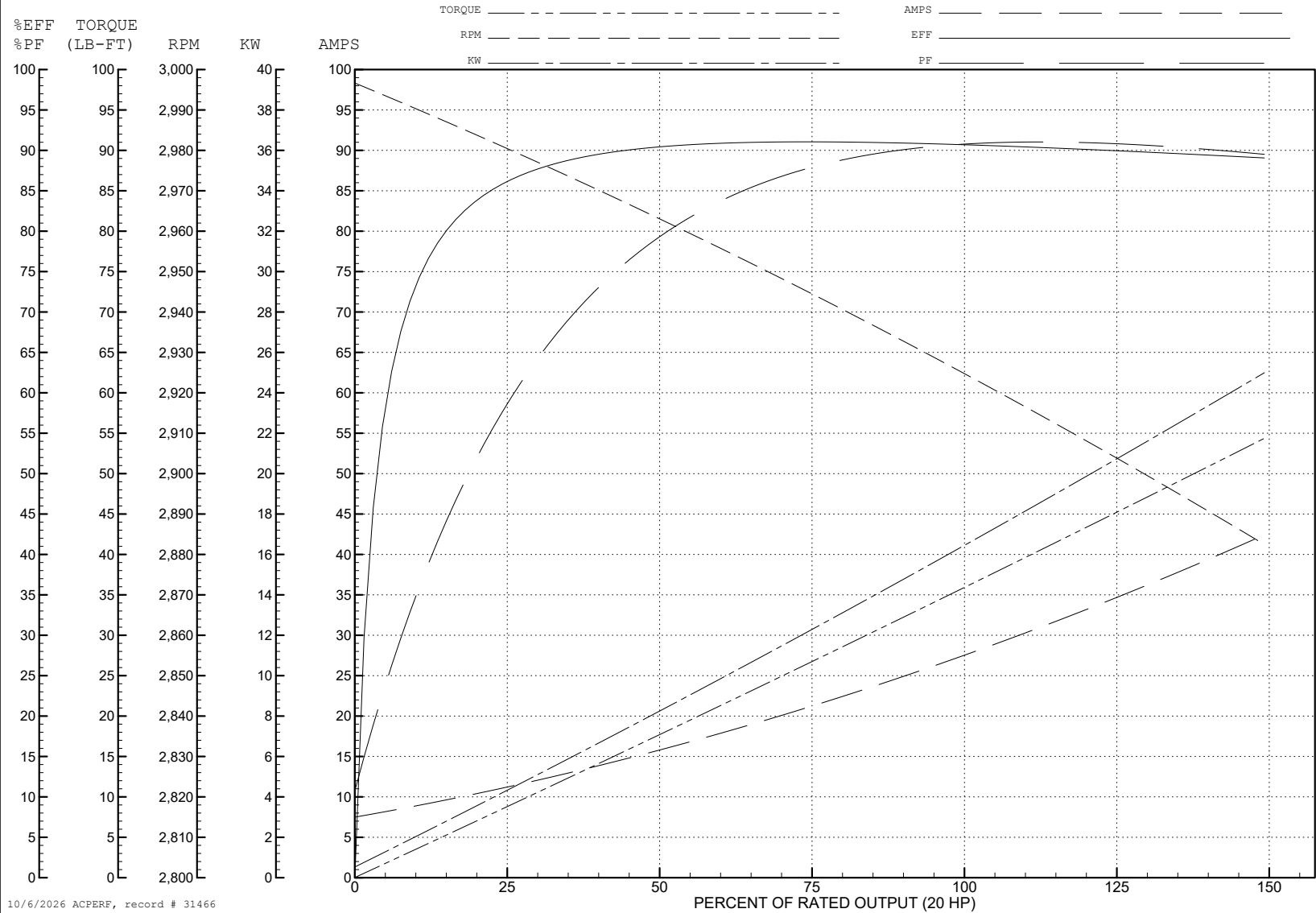
ABB Motors and Mechanical Inc.

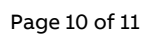
WINDING # 10WGY777

Typical performance - not guaranteed values.

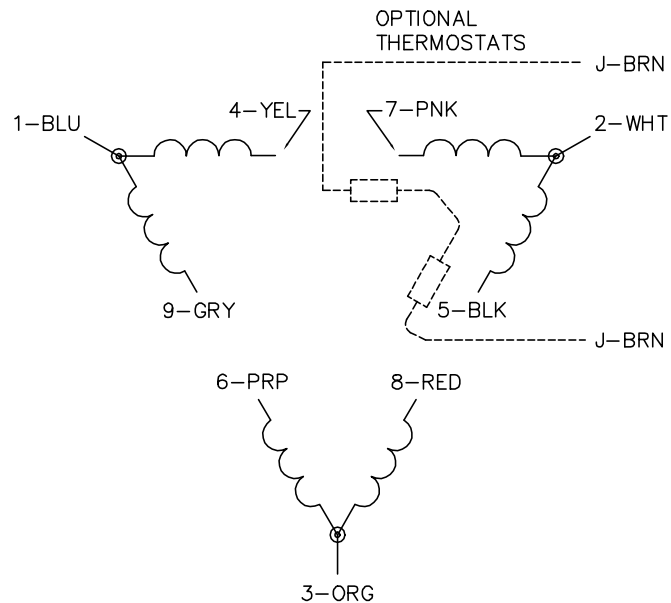
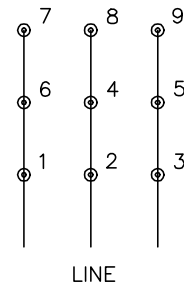
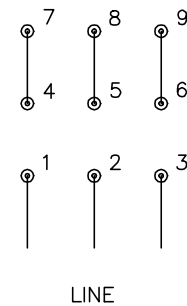
20 HP 3 PH 50 HZ 2926 RPM 380 V 1038M

TORQUES (LB-FT): PO=139 PU=53.4 LR=69 LRA=173





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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