

ABB BALDOR RELIANCE III

Customer information packet

FPM2516T

25//20HP, 3515//2920RPM, 3PH, 60//50HZ, 256T

Class -

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	256T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 50 HZ 25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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 CSA EEV UL 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	58.000 A @ 230.0 V 56.000 A @ 190.0 V 29.000 A @ 460.0 V 28.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	R
Type	AC
Mech. spec.	39D101
Base	
Status	PRD/A
Elec. spec.	39WGX927
Layout	39LYD101
Eff. date	12-12-2025
CD Diagram	CD0104
Poles	02
Leads	12#10
Proprietary	False
Created date	09-15-2015

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
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3934M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.69 IN
Power Factor	88
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
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	No Slinger
Speed	2920 rpm 3515 rpm

Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3454L													
CAT.NO.	FPM2516T				CUST P/N					I.P.	23		
SPEC.	39D101X927H2				SER.NO.					FRAME	256T		
HZ	60	HP	25		RPM	3515		HZ	50		HP	20	
												RPM	2920
VOLTS	230/460				CODE	F				VOLTS	190/380		
												CODE	F
AMPS	58/29				DES	B				AMPS	56/28		
												DES	B
EFF	91	SER.F.	1.15		PF	88		EFF	90.2		SER.F.	1.15	
												PF	88
RATING	40C AMB-CONT				DE BRG	6309				GREASE	POLYREX EM		
BLANK					ODE BRG	6208				MTR. WT.	210		
					CLASS	F		PH	3				
					ENCL	ODP		CC	010A				
HTR-VOLTS					HTR-AMPS					HTR-WATTS			

AC Induction Motor Performance Data

Record # 53766

Typical performance - not guaranteed values

Winding: 39WGX927-R001		Type: 3934M	Enclosure: OPSB
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	25//20	Full Load Torque	37.5 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	58/29//56/28	Breakdown Torque	109 LB-FT
R.P.M.	3515//2920	Pull-up Torque	40.4 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	49.7 LB-FT
NEMA Design Code	B KVA Code	Starting Current	174 A
Service Factor (S.F.)	1.15	No-load Current	8.31 A
NEMA Nom. Eff.	91 Power Factor	Line-line Res. @ 25°C	0.45684 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	40°C
S.F. Amps		Temp. Rise @ S.F. Load	51°C

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	79	86	88	89	89	89
Efficiency	90.2	92.7	92.6	91.7	90.3	88.6	90.9
Speed	3583.9	3564.3	3542.5	3519.2	3491.2	3460.7	3502
Line amperes	11	15.9	22.2	29	36.7	44.8	33.6

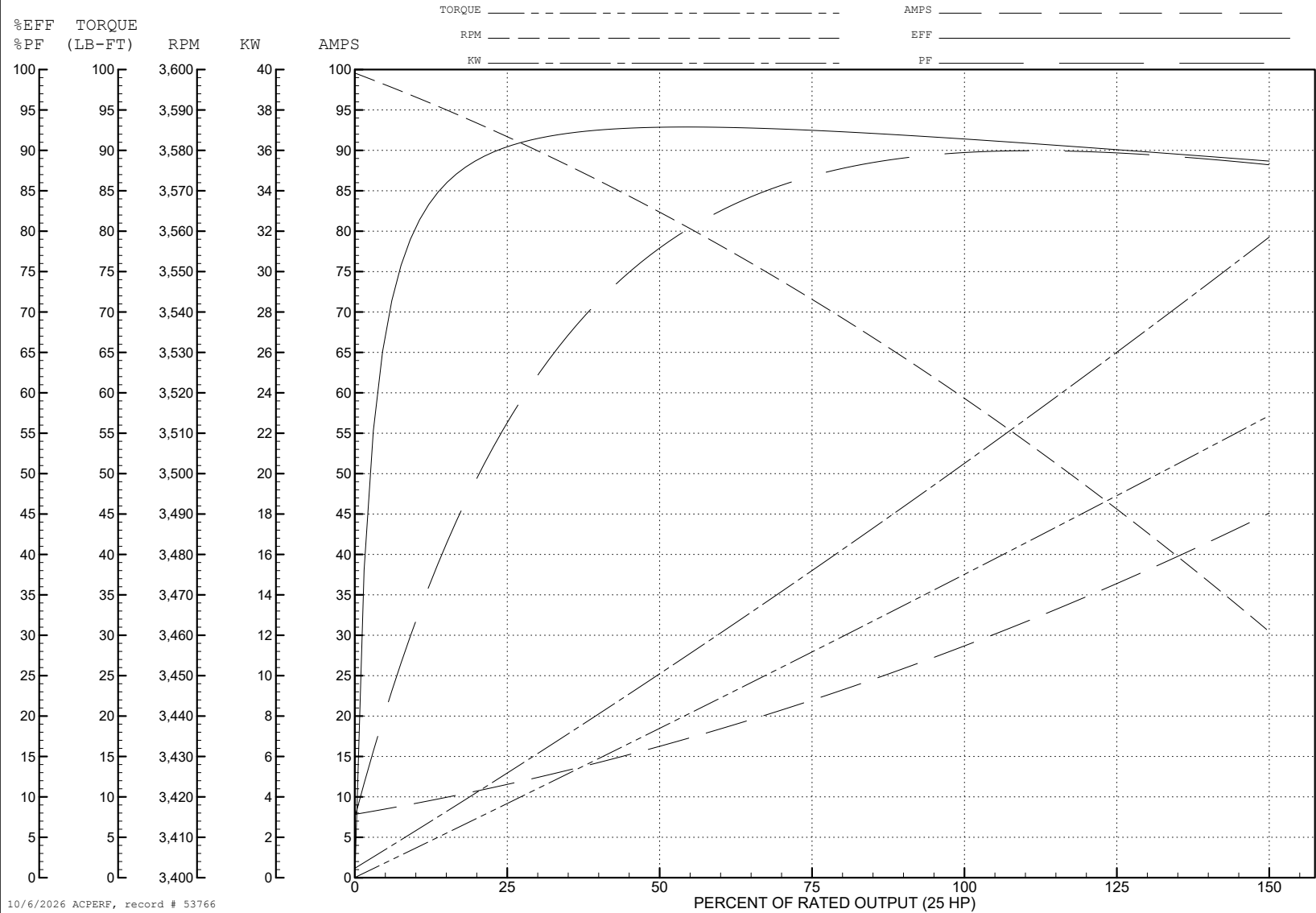
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WINDING # 39WGX927

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3519.2 RPM 460 V 3934M

TORQUES (LB-FT): PO=109 PU=40.4 LR=49.7 LRA=174



AC Induction Motor Performance Data

Record # 53767

Typical performance - not guaranteed values

Winding: 39WGX927-R001			Type: 3934M		Enclosure: OPSB		
Nameplate Data			380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		25//20	Full Load Torque		36.2 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		58/29//56/28	Breakdown Torque		104 LB-FT		
R.P.M.		3515//2920	Pull-up Torque		42.7 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		52.5 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		169 A
Service Factor (S.F.)		1.15		No-load Current		8.02 A	
NEMA Nom. Eff.		91	Power Factor	88	Line-line Res. @ 25°C		0.438 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C	
S.F. Amps				Temp. Rise @ S.F. Load		51°C	
				Locked-rotor Power Factor		33.9	
				Rotor inertia		0.868 LB-FT2	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	80	86	89	89	89	89
Efficiency	88	90.9	91.1	90.3	88.8	86.9	90.9
Speed	2984	2964	2944	2921	2894	2864	3502
Line amperes	10.7	15.5	21.7	28.4	36	44	33.6

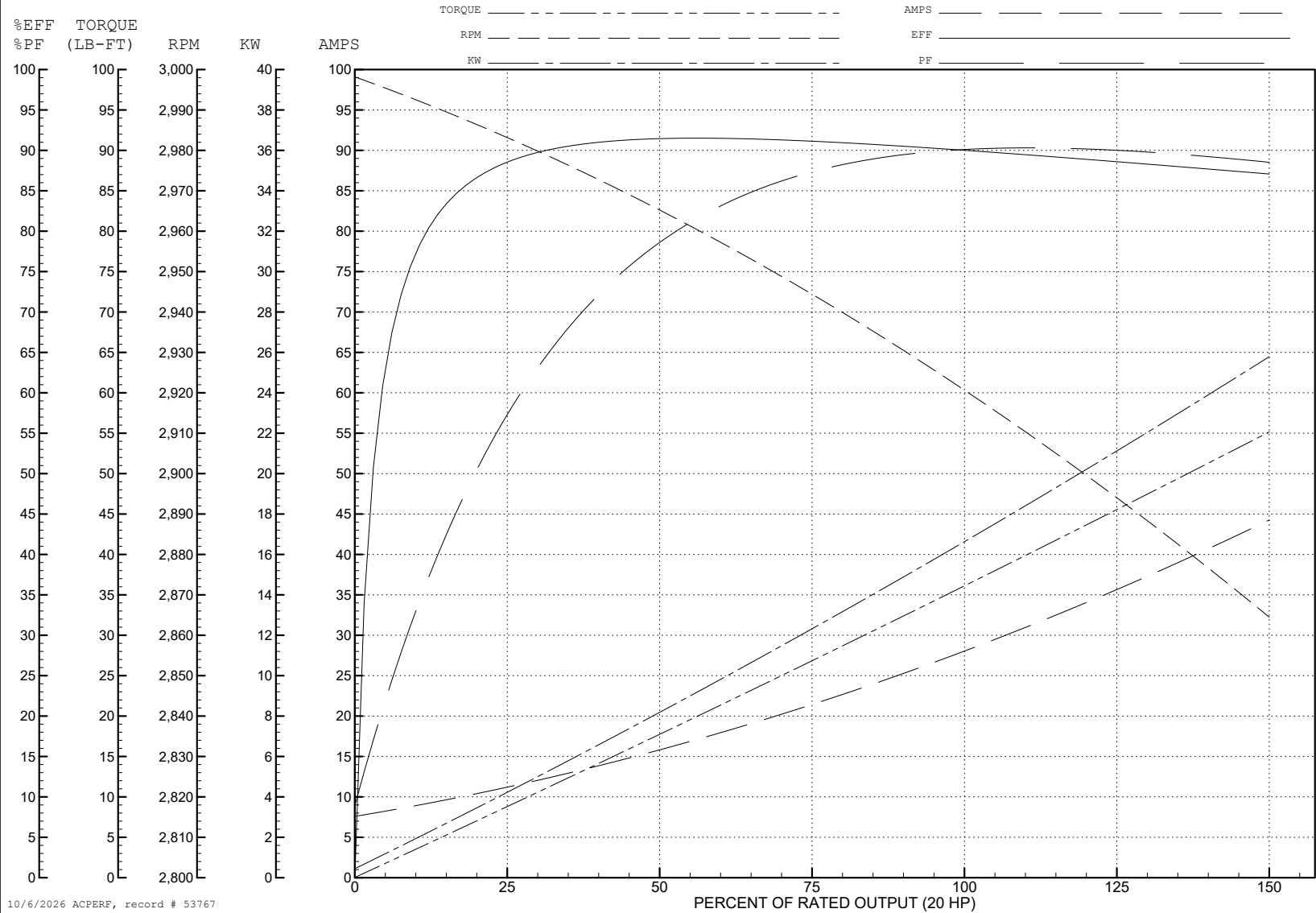
ABB Motors and Mechanical Inc.

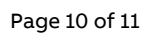
WINDING # 39WGX927

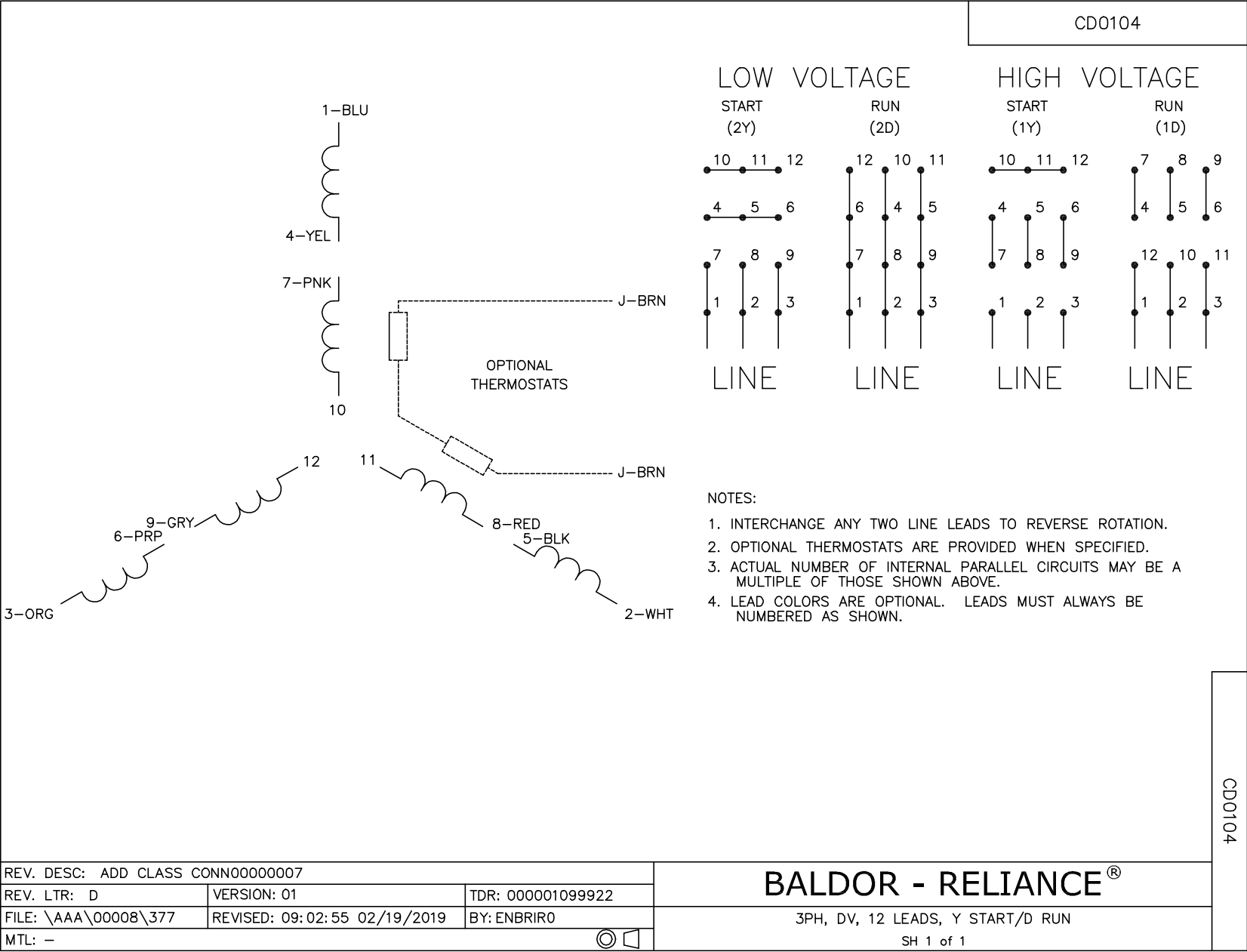
Typical performance - not guaranteed values.

20 HP 3 PH 50 HZ 2921 RPM 380 V 3934M

TORQUES (LB-FT): PO=104 PU=42.7 LR=52.5 LRA=169







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