

ABB BALDOR RELIANCE III

Customer information packet

FPM2555TS-5

100HP, 1775RPM, 3PH, 60HZ, 404TS, 4462M, OPSB

Specifications

Enclosure	OPSB
Frame	404TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
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	93.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
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	93.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	K
Type	AC
Mech. spec.	44E020
Base	
Status	PRD/A
Elec. spec.	44WGW374
Layout	44LYE020
Eff. date	03-11-2026
CD Diagram	CD0382
Poles	04
Leads	6#6
Proprietary	False
Created date	07-20-2016

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4462M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	31.85 IN
Power Factor	85
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	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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.	FPM2555TS-5				CUST P/N					I.P.	23		
SPEC.	44E020W374H2				SER.NO.					FRAME	404TS		
HZ	60	HP	100		RPM	1775	HZ		HP		RPM		
VOLTS	575			CODE	F		VOLTS				CODE		
AMPS	93			DES	B		AMPS				DES		
EFF	94.1	SER.F.	1.15		PF	85		EFF		SER.F.		PF	
RATING	40C AMB-CONT				DE BRG	6313		GREASE	POLYREX EM				
BLANK					ODE BRG	6312		MTR. WT.	648				
					CLASS	F		PH	3				
					ENCL	OPSB		CC	010A				
HTR-VOLTS		HTR-AMPS		HTR-WATTS									

AC Induction Motor Performance Data

Record # 58316

Typical performance - not guaranteed values

Winding: 44WGW374-R001				Type: 4462M		Enclosure: OPSB	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		100		Full Load Torque		295 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		93		Breakdown Torque		774 LB-FT	
R.P.M.		1775		Pull-up Torque		308 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		437 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		540 A
Service Factor (S.F.)		1.15		No-load Current		34.3 A	
NEMA Nom. Eff.		94.1	Power Factor	85	Line-line Res. @ 25°C		0.0894 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		52°C	
S.F. Amps				Temp. Rise @ S.F. Load		62°C	
				Locked-rotor Power Factor		25.1	
				Rotor inertia		11.7 LB-FT2	

Load Characteristics 575 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	73	82	85	85	84	85
Efficiency	90.3	93.6	94.4	94.3	93.9	92.9	94.1
Speed	1794	1789	1783	1777	1771	1763	1773
Line amperes	40.3	54.6	72.9	93.4	117	142	108

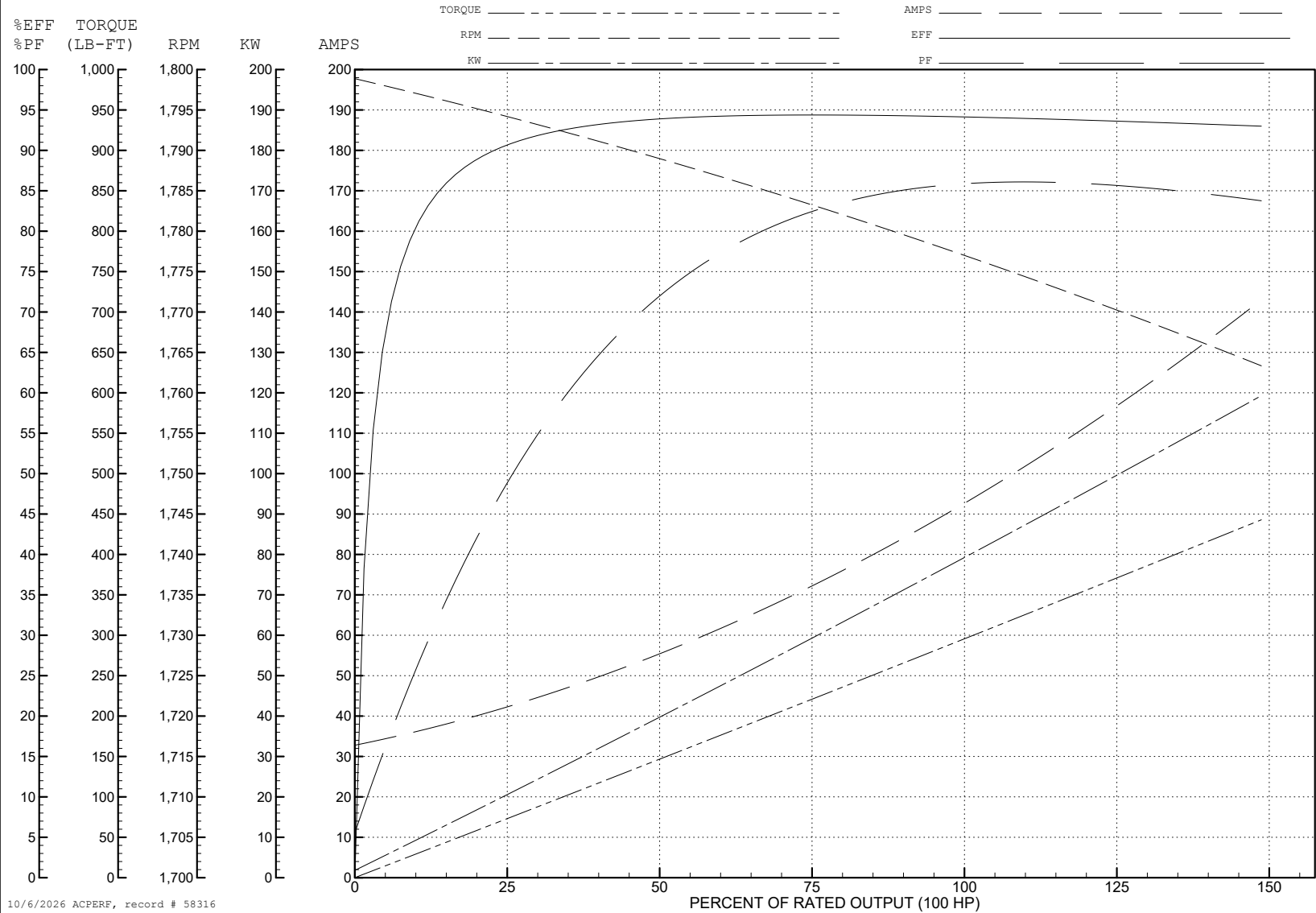
ABB Motors and Mechanical Inc.

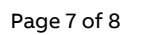
WINDING # 44WG374

Typical performance - not guaranteed values.

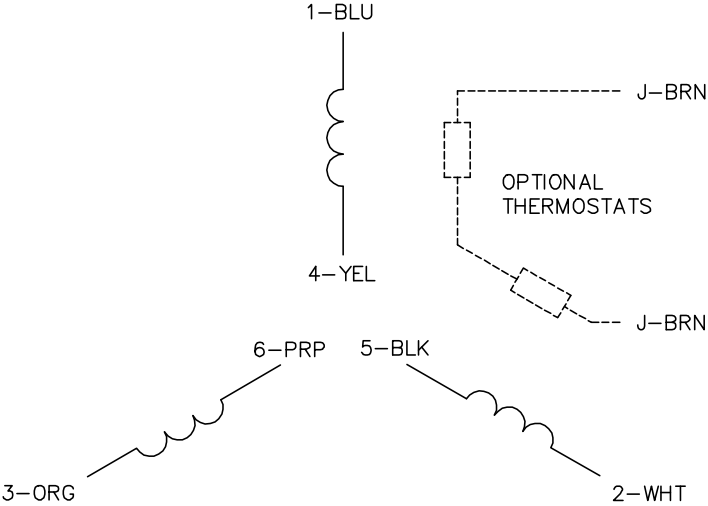
100 HP 3 PH 60 HZ 1775 RPM 575 V 4462M

TORQUES (LB-FT): PO=774 PU=308 LR=437 LRA=540

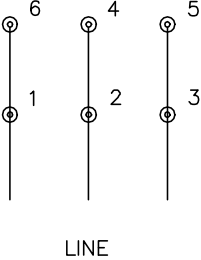




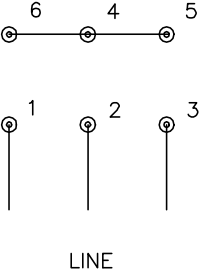
CD0382



RUN CONNECTION
(1D)



START CONNECTION
(1Y)



- 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.
 - 5. FOR ACROSS-THE-LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN
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