

ABB BALDOR RELIANCE III

Customer information packet

FPM2550T

100//75HP, 3530//2940RPM, 3PH, 60//50HZ, 365

Specifications

Enclosure	OPSB
Frame	365TS
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ 75.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 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	248.000 A @ 208.0 V 226.000 A @ 230.0 V 206.000 A @ 190.0 V 113.000 A @ 460.0 V 103.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	C
Type	AC
Mech. spec.	42E360
Base	
Status	PRD/A
Elec. spec.	42WGW975
Layout	42LYE360
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	02
Leads	12#6
Proprietary	False
Created date	03-20-2017

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	103.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4260M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	28.94 IN
Power Factor	89
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2940 rpm 3530 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.	FPM2550T				CUST P/N								I.P.	23		
SPEC.	42E360W975H2				SER.NO.								FRAME	365TS		
HZ	60	HP	100		RPM	3530		HZ	50		HP	75		RPM	2940	
VOLTS	230/460				CODE	F		VOLTS	190/380				CODE	G		
AMPS	226/113				DES	B		AMPS	206/103				DES	B		
EFF	93	SER.F.		1.15		PF	89		EFF	92.4		SER.F.	1.15		PF	89
RATING	40C AMB-CONT					DE BRG	6313				GREASE	POLYREX EM				
BLANK						ODE BRG	6311				MTR. WT.	533				
						CLASS	F			PH	3					
						ENCL	OPSB			CC	010A					
HTR-VOLTS					HTR-AMPS				HTR-WATTS							

AC Induction Motor Performance Data

Record # 52862

Typical performance - not guaranteed values

Winding: 42WGW975-R001				Type: 4260M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		100//75		Full Load Torque		148 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		226/113//206/103		Breakdown Torque		508 LB-FT	
R.P.M.		3530//2940		Pull-up Torque		202 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		246 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		690 A
Service Factor (S.F.)		1.15		No-load Current		26.8 A	
NEMA Nom. Eff.		93	Power Factor	89	Line-line Res. @ 25°C		0.0651 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps				Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		21.2	
				Rotor inertia		4.69 LB-FT2	

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	83	87	89	88	87	88
Efficiency	91.8	94	93.8	93.1	92	90.5	92.4
Speed	3587	3572	3555	3536	3515	3491	3523
Line amperes	38.9	60.5	86	113	143	175	131

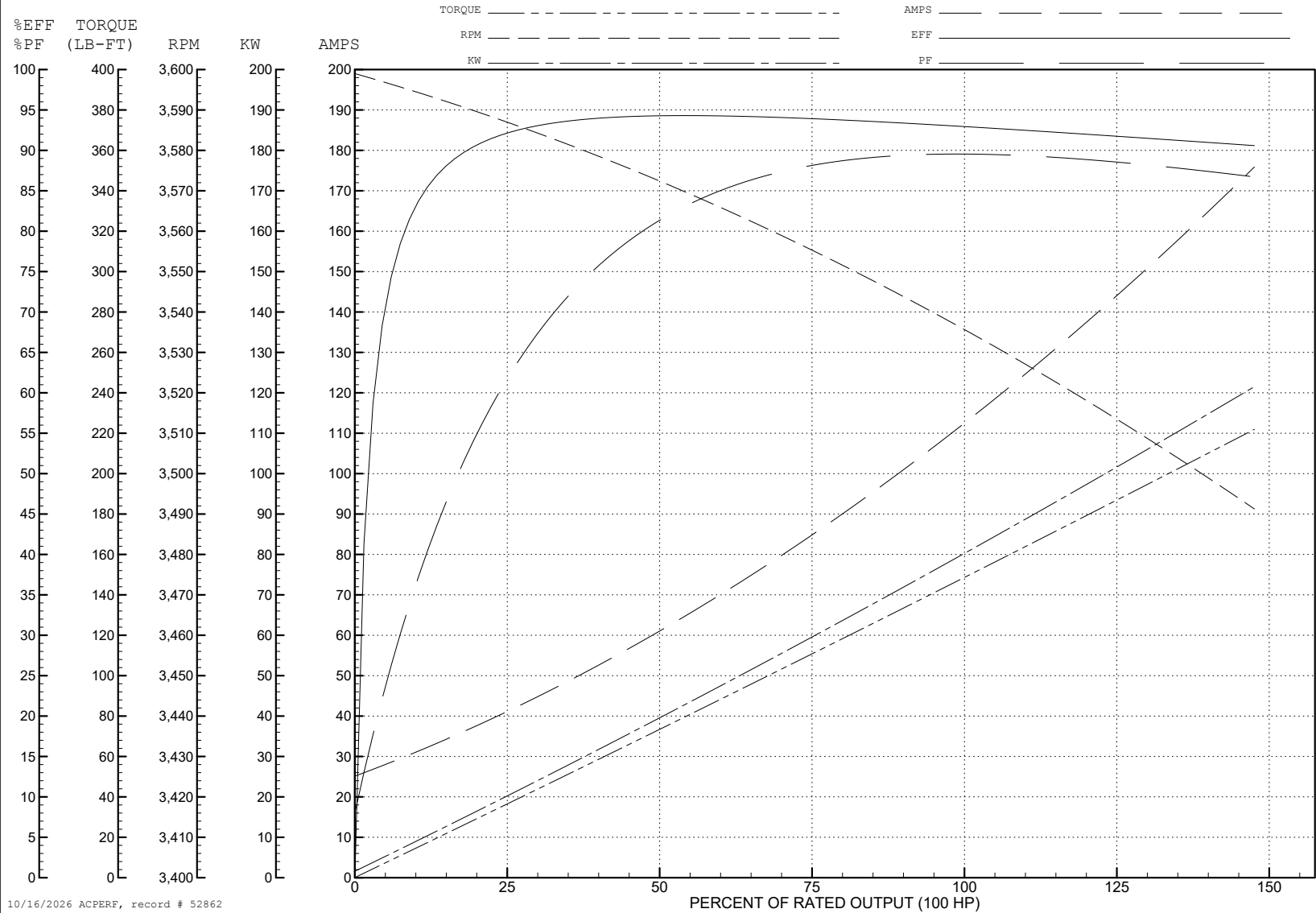
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WINDING # 42WGW975

Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 3536 RPM 460 V 4260M

TORQUES (LB-FT): PO=508 PU=202 LR=246 LRA=690



AC Induction Motor Performance Data

Record # 52863

Typical performance - not guaranteed values

Winding: 42WGW975-R001			Type: 4260M		Enclosure: OPSB		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		100//75		Full Load Torque		133 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		226/113//206/103		Breakdown Torque		492 LB-FT	
R.P.M.		3530//2940		Pull-up Torque		214 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		261 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		676 A
Service Factor (S.F.)		1.15		No-load Current		26.3 A	
NEMA Nom. Eff.		93	Power Factor	89	Line-line Res. @ 25°C		0.0651 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		49°C	
S.F. Amps				Temp. Rise @ S.F. Load		60°C	
				Locked-rotor Power Factor		23.9	
				Rotor inertia		4.69 LB-FT2	

Load Characteristics 380 V, 50 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	82	87	89	88	88	88
Efficiency	91.9	94	93.8	92.7	91.9	90.1	92.2
Speed	2988	2975	2960	2943	2925	2904	2932
Line amperes	36.6	55.7	78.6	103	130	158	119

ABB Motors and Mechanical Inc.

WINDING # 42WGW975

Typical performance - not guaranteed values.

75 HP 3 PH 50 HZ 2943 RPM 380 V 4260M

TORQUES (LB-FT): PO=492 PU=214 LR=261 LRA=676

