

ABB BALDOR RELIANCE III

Customer information packet

VJPFPM2555T

62M 4P OPSB VER 404TCZ DRIPCOVER

Specifications

Enclosure	OPSB
Frame	404TCZ
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	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 460.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	252.000 A @ 208.0 V 234.000 A @ 230.0 V 214.000 A @ 190.0 V 117.000 A @ 460.0 V 107.000 A @ 380.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	D
Type	AC
Mech. spec.	44E270
Base	
Status	PRD/A
Elec. spec.	44WGW056
Layout	44LYE270
Eff. date	08-01-2023
CD Diagram	CD0104
Poles	04
Leads	12#6
Proprietary	False
Created date	07-06-2018

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	107.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4462M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	38.47 IN
Power Factor	85
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm 1775 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP3454L															
CAT.NO.	VJPFPM2555T				CUST P/N				I.P.				23		
SPEC.	44E270W056H2				SER.NO.				FRAME				404TCZ		
HZ	60	HP	100		RPM	1775		HZ	50		HP	75		RPM	1475
VOLTS	230/460				CODE	F		VOLTS	190/380				CODE	G	
AMPS	234/117				DES	B		AMPS	214/107				DES	B	
EFF	94.1	SER.F.	1.15		PF	85		EFF	93.6		SER.F.	1.15		PF	84
RATING	40C AMB-CONT					DE BRG	6316					GREASE	POLYREX EM		
BLANK						ODE BRG	6312					MTR. WT.	586		
						CLASS	F			PH	3				
						ENCL	OPSB			CC	010A				
HTR-VOLTS			HTR-AMPS				HTR-WATTS								

AC Induction Motor Performance Data

Record # 52880

Typical performance - not guaranteed values

Winding: 44WGW056-R002				Type: 4462M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		100//75		Full Load Torque		295 LB-FT			
Volts		230/460//190/380		Start Configuration		direct on line			
Full Load Amps		234/117//214/107		Breakdown Torque		776 LB-FT			
R.P.M.		1775//1475		Pull-up Torque		310 LB-FT			
Hz		60//50 Phase		3		Locked-rotor Torque		440 LB-FT	
NEMA Design Code		B		KVA Code		F		Starting Current	680 A
Service Factor (S.F.)				1.15				No-load Current	43.2 A
NEMA Nom. Eff.		94.1		Power Factor		85		Line-line Res. @ 25°C	0.0628 Ω
Rating - Duty				40C AMB-CONT				Temp. Rise @ Rated Load	53°C
S.F. Amps								Temp. Rise @ S.F. Load	70°C
								Locked-rotor Power Factor	26
								Rotor inertia	11.7 LB-FT2

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	85	86	85	86
Efficiency	90.2	93.6	94.3	94.1	93.6	92.6	93.8
Speed	1794	1789	1783	1777	1771	1763	1773
Line amperes	50.7	68.5	91.4	117	145.9	177.8	134.3

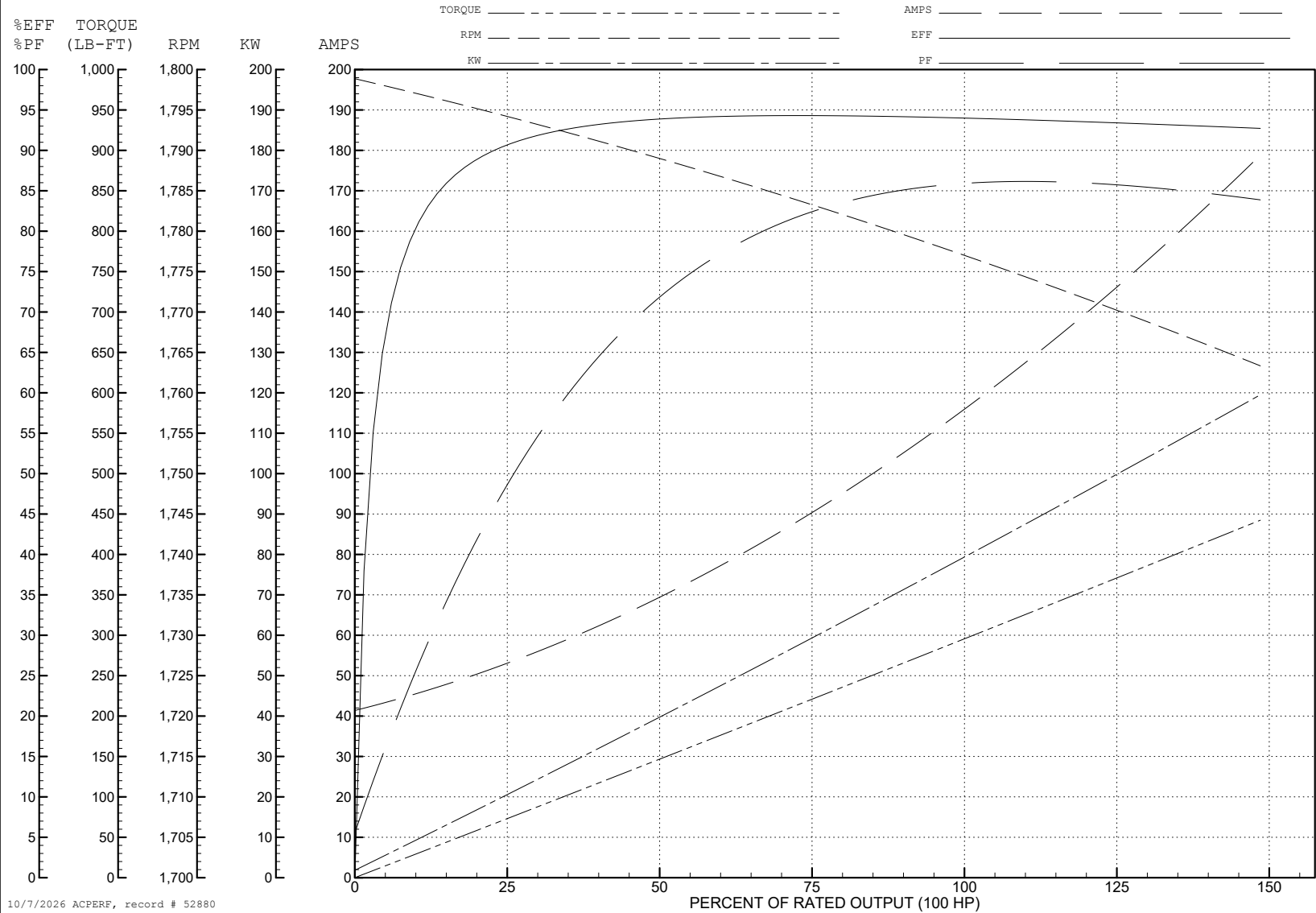
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WINDING # 44WG056

Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 1777 RPM 460 V 4462M

TORQUES (LB-FT): PO=776 PU=310 LR=440 LRA=680



AC Induction Motor Performance Data

Record # 52881

Typical performance - not guaranteed values

Winding: 44WGW056-R002			Type: 4462M	Enclosure: OPSB		
Nameplate Data			380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)	100//75		Full Load Torque	266 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	234/117//214/107		Breakdown Torque	752 LB-FT		
R.P.M.	1775//1475		Pull-up Torque	327 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	464 LB-FT	
NEMA Design Code	B		KVA Code	F	Starting Current	667 A
Service Factor (S.F.)	1.15		No-load Current	42.3 A		
NEMA Nom. Eff.	94.1	Power Factor	85	Line-line Res. @ 25°C	0.0622 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	46°C		
S.F. Amps			Temp. Rise @ S.F. Load	56°C		
			Locked-rotor Power Factor	28.6		
			Rotor inertia	11.7 LB-FT2		

Load Characteristics 380 V, 50 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	80	84	85	84	85
Efficiency	90.2	93.6	94.1	94	93.2	92.3	93.5
Speed	1495	1490	1485	1479	1474	1467	1476
Line amperes	48.6	64	84.3	107	133	162	123

ABB Motors and Mechanical Inc.

WINDING # 44WGW056

Typical performance - not guaranteed values.

75 HP 3 PH 50 HZ 1479 RPM 380 V 4462M

TORQUES (LB-FT): PO=752 PU=327 LR=464 LRA=667

