



Customer information packet

SUM21504-4

15HP, 1765RPM, 3PH, 60HZ, 210TY, TENV, V1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	210TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	3
Agency Approvals	CCSA US
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	4
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.437 IN
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Part detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	86078
Layout	619738-019
Eff. date	12-10-2024
CD Diagram	
Poles	///
Leads	
Proprietary	False
Created date	07-12-2024

Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007MS										
CAT.NO.	SUM21504-4		SPEC NO.		S21-CWS0-0304					
SER.NO.				FRAME SIZE		210TY				
CONSTANT HP RPM	HP	RPM	VOLTS		AMPS		HZ		S.F.	
	15	1765	230/460		38/19		6-60		1.00	
	15	1765	230/460		38/19		60		1.15	
			@		HZ	CODE	H			
	TYPE	P	INSUL.CLASS		F	TORQUE		10:1_VT		DESIGN
D.E. BRG.	60BC02JPP30A		ENCL	TENV		DUTY	15MIN		PH	3
O.D.E. BRG.	30BC02JPG30A		MOTOR WEIGHT					AMB	40	
FINAL CONN VOLTAGE = 460 *15										
MIN IN AIR										

000692000MB	
SUITABLE FOR OPERATION ON PWM	
INVERTER EQUIPPED WITH IGBT	
DEVICES AND CAPABLE OF	
CARRIER	
FREQUENCY OF 2 KHZ MINIMUM	

000613007MS

CAT.NO.	SUM21504-4		SPEC NO.		S21-CWS0-0304				
SER.NO.				FRAME SIZE		210TY			
	HP	RPM	VOLTS	AMPS	HZ		S.F.		
	15	1765	230/460	38/19		6-60	1.00		
	15	1765	230/460	38/19		60	1.15		
CONSTANT HP RPM			@		HZ	CODE	H		
TYPE	P	INSUL.CLASS		F	TORQUE	10:1_VT		DESIGN	B
D.E. BRG.	60BC02JPP30A			ENCL	TENV	DUTY	15MIN	PH	3
O.D.E. BRG.	30BC02JPG30A			MOTOR WEIGHT			AMB	40	
	FINAL CONN VOLTAGE = 460 *15								
	MIN IN AIR								

AC induction motor performance data

Record #86078 - Typical performance - not guaranteed values

Winding	07WGA0018
Type	0746M
Enclosure	XPNV

Nameplate data

Rated Output	15
Volts	230/460
Full Load Amps	38/19
R.P.M.	1765
Hz	60
Phase	3
KVA Code	H
S.F.	1.15
NEMA Nom. Eff.	90.1
Power Factor	82
Duty	15 MIN
S.F. Amps	

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	44.66 LB-FT
Start Configuration	direct on line
Breakdown Torque	115 LB-FT
Pull-up Torque	45 LB-FT
Locked-rotor Torque	63.2 LB-FT
Starting Current	121 A
No-load Current	7.16
Line-line Res. @ 25°C	0.904 Ω
Temp. Rise @ Rated Load	35°C
Temp. Rise @ S.F. Load	43°C
Locked-rotor Power Factor	37.5
Rotor inertia	1.13 lb-ft ²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	47	69	78	82	84	84	83
Efficiency	0	88.9	91.4	91.9	90.9	89.9	88	90.3
Speed	1799	1792	1783	1775	1765	1754	1741	1758
Line amperes	7.16	8.37	11.13	14.65	18.74	23.33	28.59	21.5

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

07WGA0018

15HP 460V 60HZ





