

Horizontal Close Coupled Design Specifications

The contractor shall furnish (and install as shown on the plans) an MTH T41 Series horizontal close coupled regenerative turbine type pump model T41E size 1" by 1" of bronze fitted construction. Each pump shall have a capacity of ____GPM when operating at a total PSI of _____. Suction pressure will be ____feet with a liquid temperature of ____°F.

The pump is to be furnished with a mechanical seal with stainless steel metal parts, Buna elastomers, ceramic seat and carbon washer. A stainless steel shaft or a shaft sleeve shall be furnished in pumps up to three horsepower and a 316 stainless steel shaft in pumps five horsepower and larger.


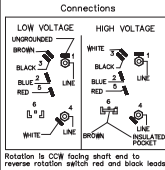
The pump casing shall be vertically split two piece, end suction and top discharge with water passageways accurately machined into each piece. The impeller shall be hydraulically self centering and no external adjustment shall be necessary.

The pump shall be close coupled to a standard NEMA "C" face 3/4 HP ____phase ____Hertz ____voltage ____RPM horizontal open drip proof motor. The motor shall be sized to prevent overloading at the highest head condition listed in the specifications.

1-Phase Bills of Materials

Item ID: 8C-T410EBFSCXSAXX-CF71AD		
Item Description: T410E BF T21 Cer C/C 3/4 HP 1/60/115/208-230V 3450 RPM ODP Motor		
Item Number	Description	Qty Needed
12-1068-01-457	Type 21 Rotating Element .875" Buna Seal	1
1-2216-0E-543	T41 E Motor Bracket, Teflon Coated	1
2-2206-0E-543	T41 E Cover, Teflon Coated	1
17-1390-01-181	Sleeve, Shaft, Brass	1
15-1168-01-104	Setscrew, 18-8 SS	2
125-1282-01-592	Seal Seat, 0.875 Ceramic, O-Ring Style	1
22-4265-01-101	Plug, 1/8 SAE	1
135-1179-01-457	O-ring, -218 Buna Included w/ Seat	1
7-3970-01-457	O Ring, .902 Buna (Drain Plug)	1
7-2479-01-457	O Ring, -159 Buna	1
DLC-1242-07-ODP	Motor, 56C-Face, DLT Electric, 1/3 Hp, 1 Phase, 2 Poles, ODP CC	1
19-1997-01-080	Machine Bolt, 3/8-16 + 4"L	4
23-1487-01-080	Key, Sleeve	1
11-2226-0E-206	Impeller, T41E Bronze	1
23-1022-01-104	Drive Key, 316SS	1
14-1049-01-080	Drive Collar	1


1-Phase Motor Nameplate

 202 West Main Street • Plano, IL 60545	HP 3/4 SF 1.50 PH 1 HZ 60 RPM 3450 INS B VAC 115/208-230 FR 56C MAX AMB 40C FLA 10.7/5.1-5.3 ENC ODP KVA CODE P SFA 13.6/7.4-6.8 DUTY CONT	SN: C09-JUL-1 PN: DLC-1242-07-ODP-G
	HP 3/4 SF 1.0 PH 1 HZ 50 RPM 2850 MAX AMB 40C VAC 100-110/200-220 DUTY CONT FLA 11.96-13.14/6.0-6.8	
WARNING ALWAYS DISCONNECT MOTOR FROM POWER BEFORE SERVICING THERMALLY PROTECTED AUTOMATIC RESET KILUXON CEJ-51-CY MOTOR WILL RESTART WITHOUT WARNING AFTER PROTECTOR TRIPS. DO NOT INSTALL THIS MOTOR ON EQUIPMENT WHERE AUTOMATIC START UP COULD RESULT IN INJURY		
GROUNDING FATAL ELECTRICAL SHOCK MAY RESULT IF MOTOR FRAME AND ADJACENT METAL IS NOT GROUNDED IN COMPLIANCE WITH ELECTRICAL CODE. NOTE: NUT REQUIRED WITH CONDUIT FITTING		
Connections 		
Rotation is CCW facing shaft end to reverse rotation switch red and black leads. CE MADE IN CHINA RoHS		

3-Phase Bills of Materials

Item ID: 8C-T410EBFSCXSAXX-CF79ED		
Item Description: T410E BF T21 Cer C/C 3/4 HP 3/60/208-230/460V 3450 RPM ODP motor		
Item Number	Description	Qty Needed
12-1068-01-457	Type 21 Rotating Element .875" Buna Seal	1
1-2216-0E-543	T41 E Motor Bracket, Teflon Coated	1
2-2206-0E-543	T41 E Cover, Teflon Coated	1
17-1390-01-181	Sleeve, Shaft, Brass	1
15-1168-01-104	Setscrew, 18-8 SS	2
125-1282-01-592	Seal Seat, 0.875 Ceramic, O-Ring Style	1
22-4265-01-101	Plug, 1/8 SAE	1
135-1179-01-457	O-ring, -218 Buna Included w/ Seat	1
7-3970-01-457	O Ring, .902 Buna (Drain Plug)	1
7-2479-01-457	O Ring, -159 Buna	1
FRC-1250-07-ODP	1/2 HP 3/60/230/460V 3450 RPM ODP Bluffton [3/50/190/380--2880]	1
19-1997-01-080	Machine Bolt, 3/8-16 + 4"L	4
23-1487-01-080	Key, Sleeve	1
11-2226-0E-206	Impeller, T41E Bronze	1
23-1022-01-104	Drive Key, 316SS	1
14-1049-01-080	Drive Collar	1

3-Phase Motor Nameplate

BLUFFTON MOTOR WORKS 410 E. Spring St. Bluffton, Indiana 46714		Blank MOD 1303007156 REF 1250-07-ODP
60 HZ HP 3/4 RPM 3450 V 208-230/460 FLA 2.6-2.6/1.3 SF 1.5 SFA 3.4-3.4/1.7	50 HZ 3/4 2875 190-220/380-440 3.0-3.2/1.5-1.6 1.0 Blank	FR 56C PH 3 INS 40 INS B ENC D P TIME RATE CONT KVA CODE L DATE CODE
LOW VOLTAGE L1 1 7 L2 2 8 5 4 6 L3 3 9		
HIGH VOLTAGE L1 1 4 7 L2 2 5 8 L3 3 6 9		
WARNING - Always disconnect motor from power supply before servicing. MOTOR CONTAINS NO THERMAL PROTECTOR - Separate over current protection must be provided to prevent burnout and possible fire hazard from overload or stalled motor. GROUNDING - Fatal electrical shock may result if motor frame and adjacent metal are not grounded in compliance with electrical code. 		



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