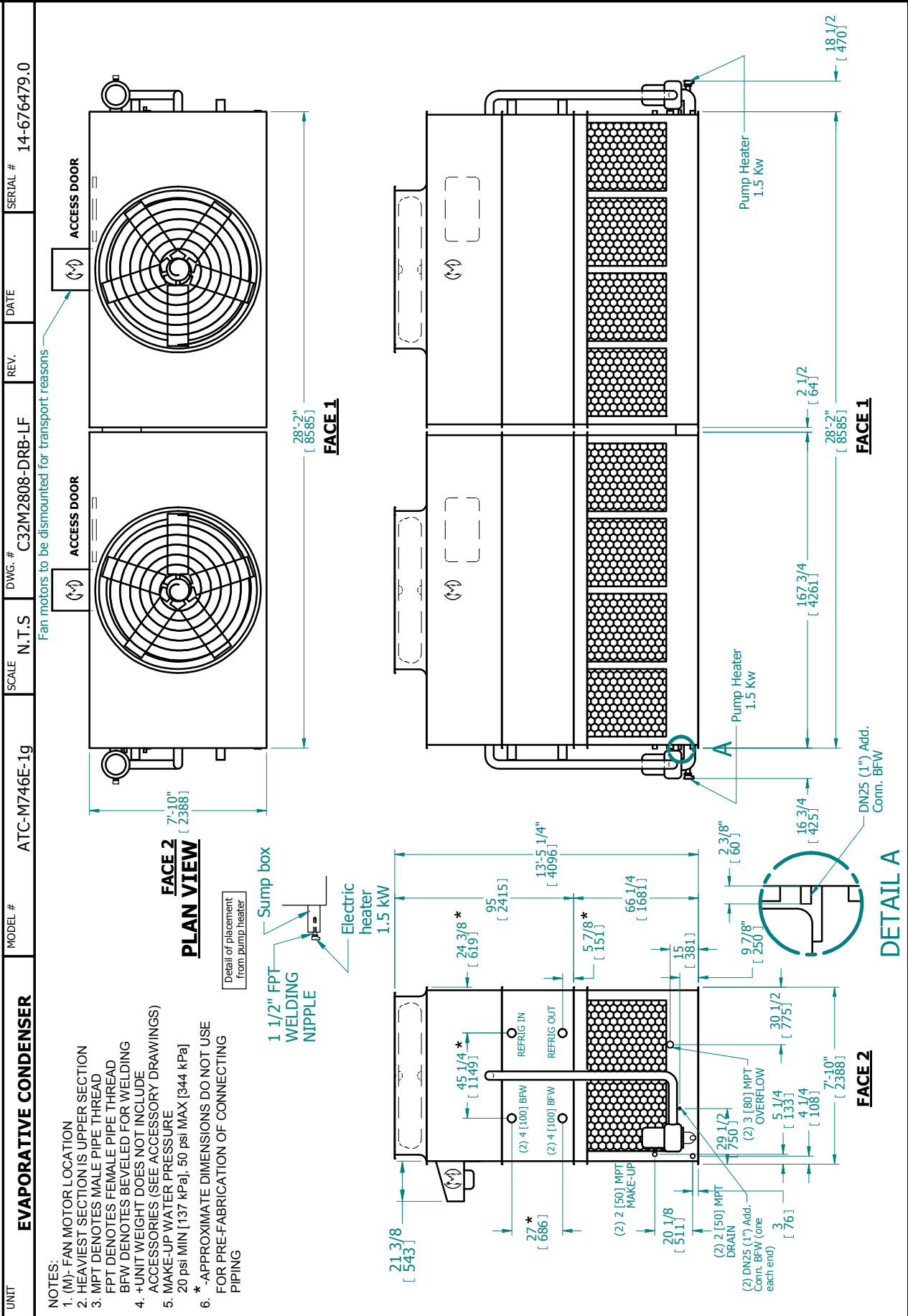


EVAPCO, INC.



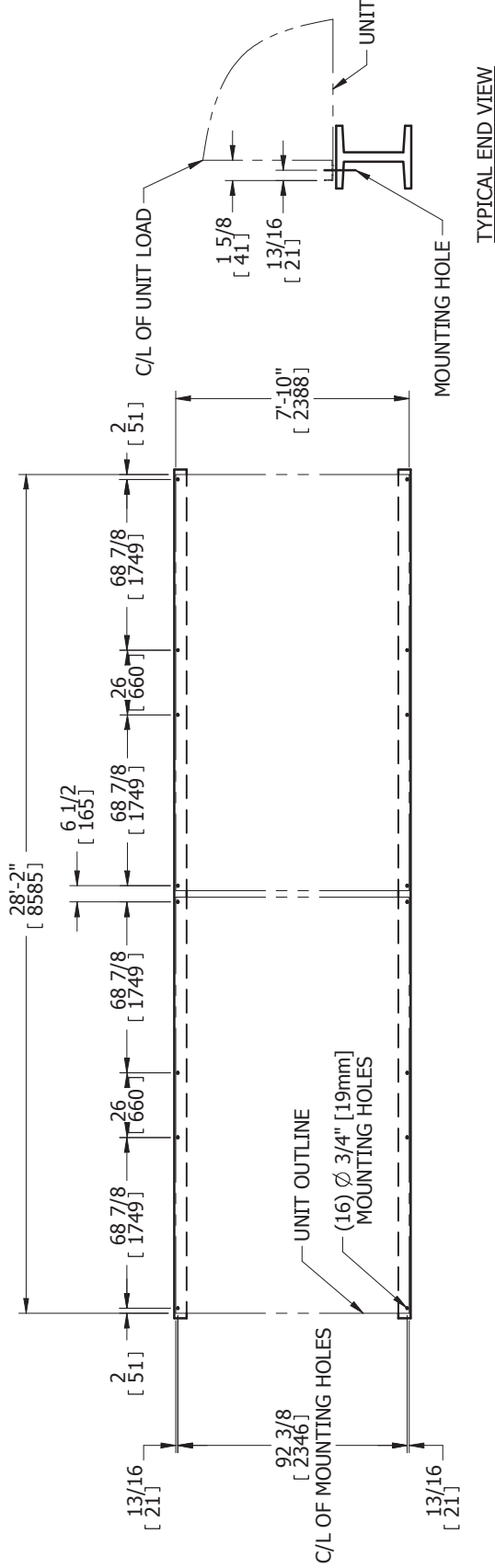
EVAPCO, INC.



TITLE STEEL SUPPORT CONFIGURATION

UNIT: 2.4Mx28 INDUCED DRAFT COOLER/CONDENSERS

DWG. # SLAW2M28-DD



PLAN VIEW

TYPICAL END VIEW

NOTES:

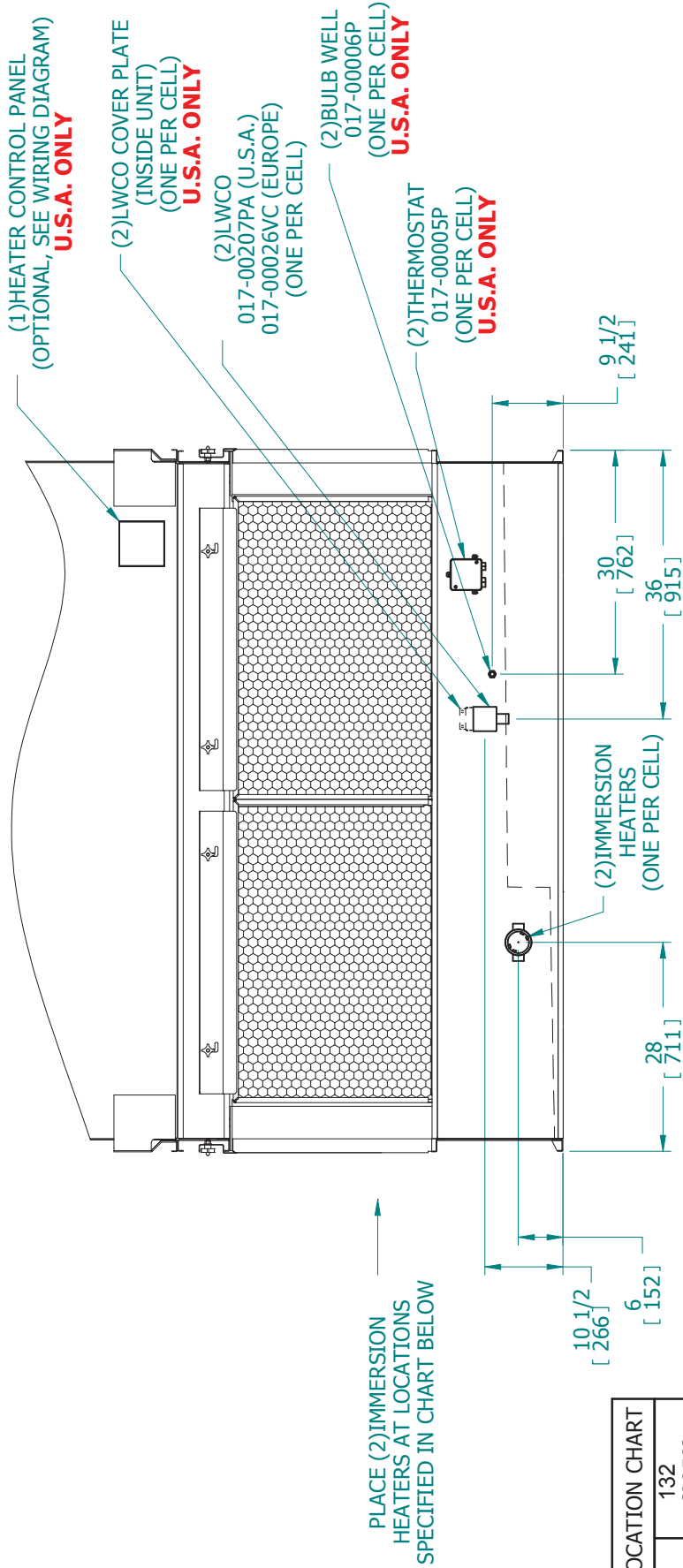
1. BEAMS SHOULD BE SIZED IN ACCORDANCE WITH ACCEPTED STRUCTURAL PRACTICES. MAXIMUM DEFLECTION OF BEAM UNDER UNIT TO BE 1/360 OF UNIT LENGTH NOT TO EXCEED 1/2" [13mm]
2. DEFLECTION MAY BE CALCULATED BY USING 55% OF THE OPERATING WEIGHT AS A UNIFORM LOAD ON EACH BEAM. SEE CERTIFIED PRINT FOR OPERATING WEIGHT.
3. SUPPORT BEAMS AND ANCHOR HARDWARE ARE TO BE FURNISHED BY OTHERS. ANCHOR HARDWARE TO BE ASTM - A325 5/8" [16mm] BOLT OR EQUIVALENT.
4. BEAMS MUST BE LOCATED UNDER THE FULL LENGTH OF THE PAN SECTION. SUPPORTING BEAM SURFACE MUST BE LEVEL. DO NOT LEVEL THE UNIT BY PLACING SHIMS BETWEEN THE UNIT MOUNTING FLANGE AND THE SUPPORTING BEAM.
5. ANCHORING ARRANGEMENT SHOWN HAS A MAXIMUM WIND RATING OF 145 PSF [6.94 kPa] ON CAGED VERTICAL SURFACES.
6. THE FACTORY RECOMMENDED STEEL SUPPORT CONFIGURATION IS SHOWN. CONSULT THE FACTORY FOR ALTERNATE SUPPORT CONFIGURATIONS.
7. UNIT SHOULD BE POSITIONED ON STEEL SUCH THAT THE ANCHORING HARDWARE FULLY PENETRATES THE BEAM'S FLANGE AND CLEARS THE BEAM'S WEB.
8. FOR ALL MULTIPLE CELL UNITS, OPERATING WEIGHT OF EACH CELL IS FOUND BY DIVIDING TOTAL OPERATING WEIGHT BY THE NUMBER OF CELLS.
9. WHEN VIBRATION ISOLATION IS REQUIRED FOR MULTIPLE CELL UNITS, THE VIBRATION ISOLATORS (BY OTHERS) MUST BE LOCATED UNDER THE SUPPORTING STEEL BEAMS AND NOT BETWEEN THE SUPPORTING STEEL BEAMS AND THE UNIT.

TITLE HEATER LOCATION

UNIT: 2.4Mx24/28/36/42 INDUCED DRAFT CONDENSER/COOLER

DWG. #

HLAW2MYA-DA-EU

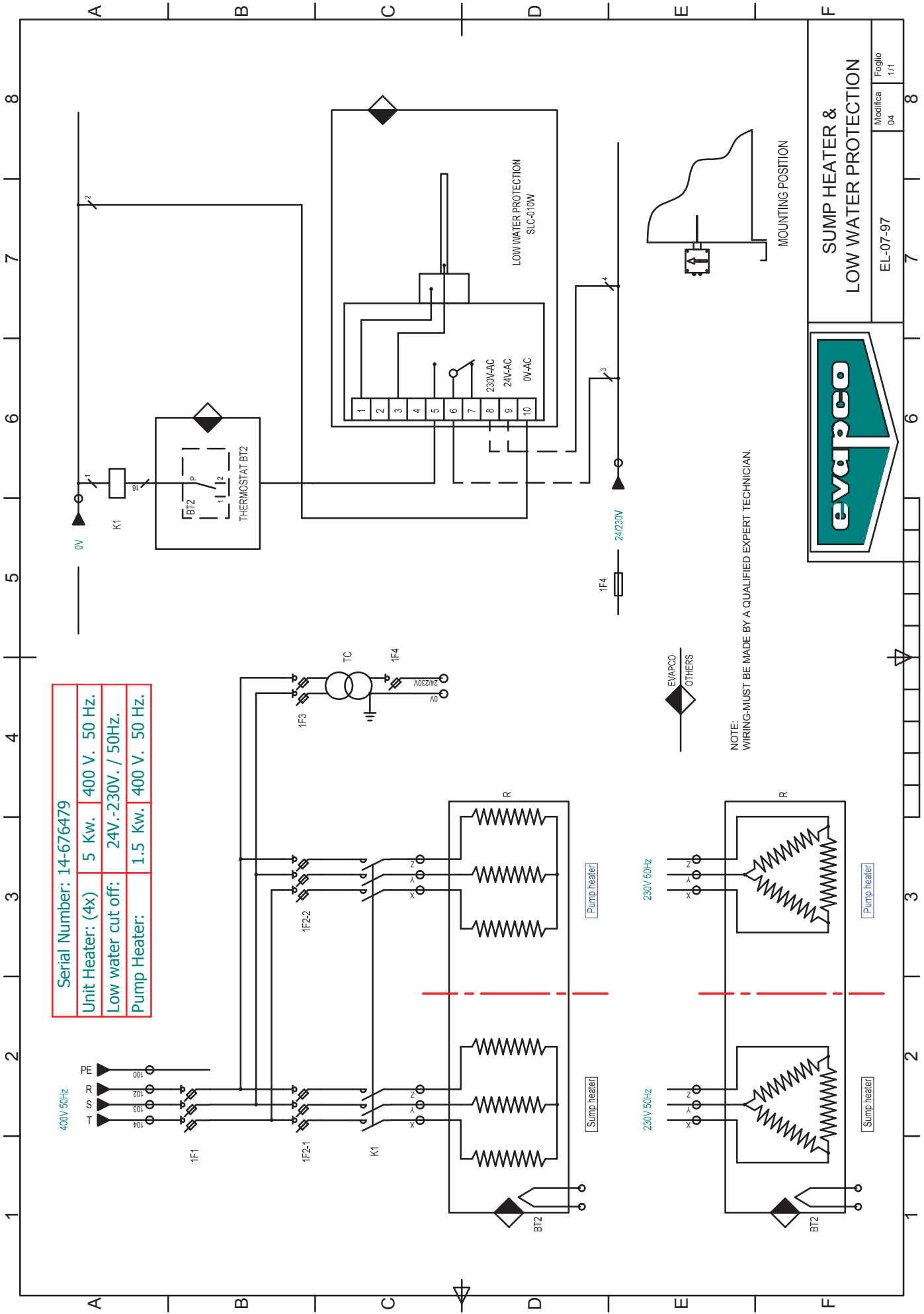


HEATER LOCATION CHART	
2.4Mx24	132 [3353]
2.4Mx28	144 [3658]
2.4Mx36	192 [4877]
2.4Mx42	228 [5791]

* PLACE HEATERS IN SPECIFIED LOCATIONS FROM EACH END TOWARD MIDDLE OF UNIT AND 6 [152] UP FROM BOTTOM OF UNIT.

NOTES:

1. A MINIMUM OF CLEARANCE IS REQUIRED BETWEEN THE HEATER OUTLET BOX AND THE NEAREST OBSTRUCTION FOR REMOVAL OF THE HEATER.
2. ALL NIPPLES ON UNIT ARE NOT SHOWN IN ORDER TO CLARIFY HEATER COMPONENT LOCATIONS.
3. ALL HEATER COMPONENTS BY EVAPCO ARE FACTORY MOUNTED WHEN POSSIBLE.
4. DIMENSIONS LISTED AS FOLLOWS: ENGLISH IN [METRIC] [mm]



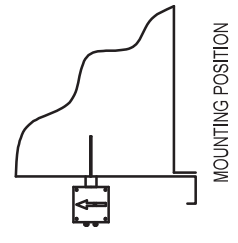
Serial Number: 14-676479	
Unit Heater: (4x)	5 Kw. 400 V. 50 Hz.
Low water cut off:	24V.-230V. / 50Hz.
Pump Heater:	1.5 Kw. 400 V. 50 Hz.

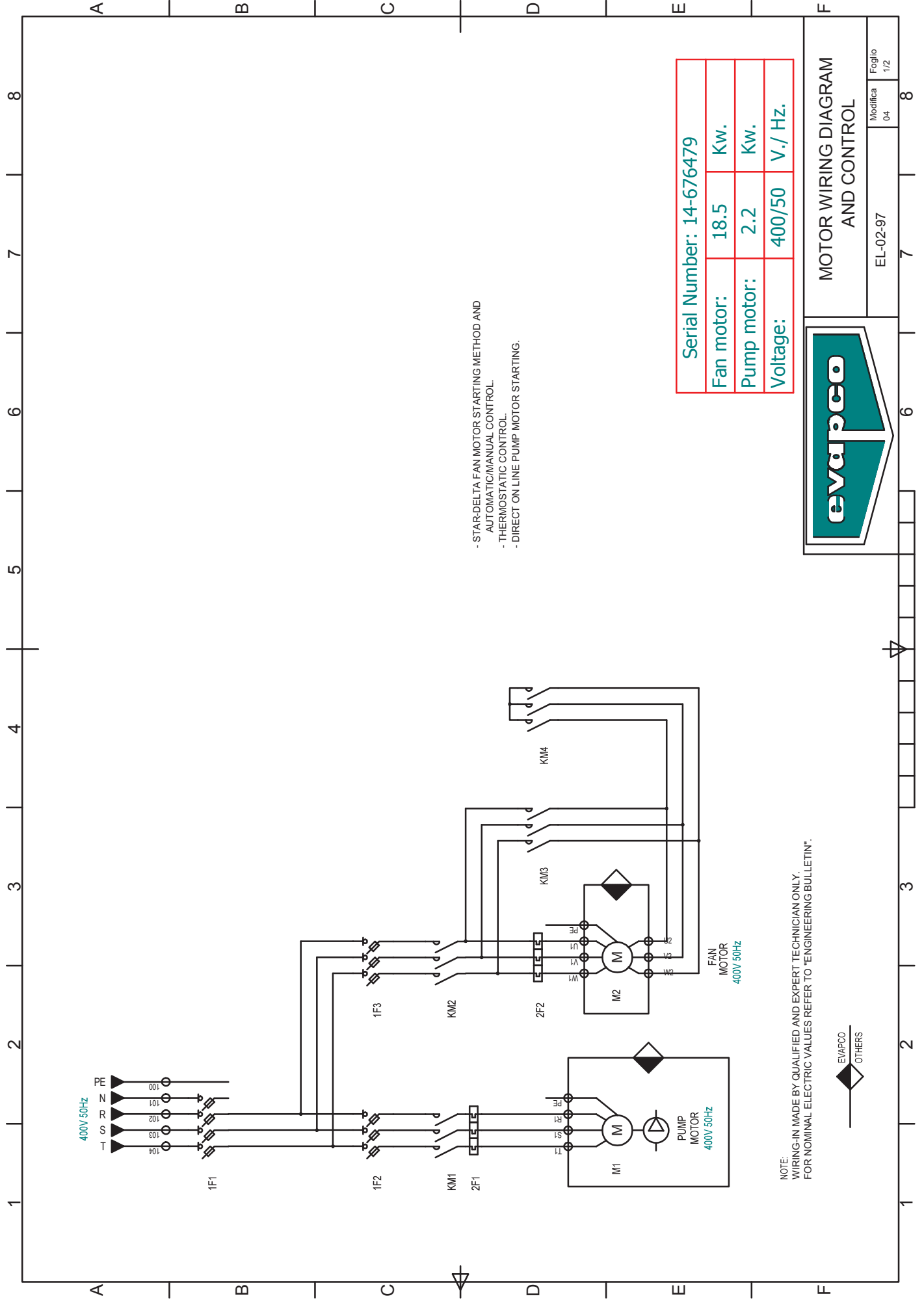
NOTE:
WIRING MUST BE MADE BY A QUALIFIED EXPERT TECHNICIAN.



**SUMP HEATER &
LOW WATER PROTECTION**

EL-07-97
Modifica 04
Foglio 1/1





- STAR-DELTA FAN MOTOR STARTING METHOD AND AUTOMATIC/MANUAL CONTROL.
- THERMOSTATIC CONTROL.
- DIRECT ON LINE PUMP MOTOR STARTING.

Serial Number: 14-676479	
Fan motor:	18.5 Kw.
Pump motor:	2.2 Kw.
Voltage:	400/50 V./ Hz.

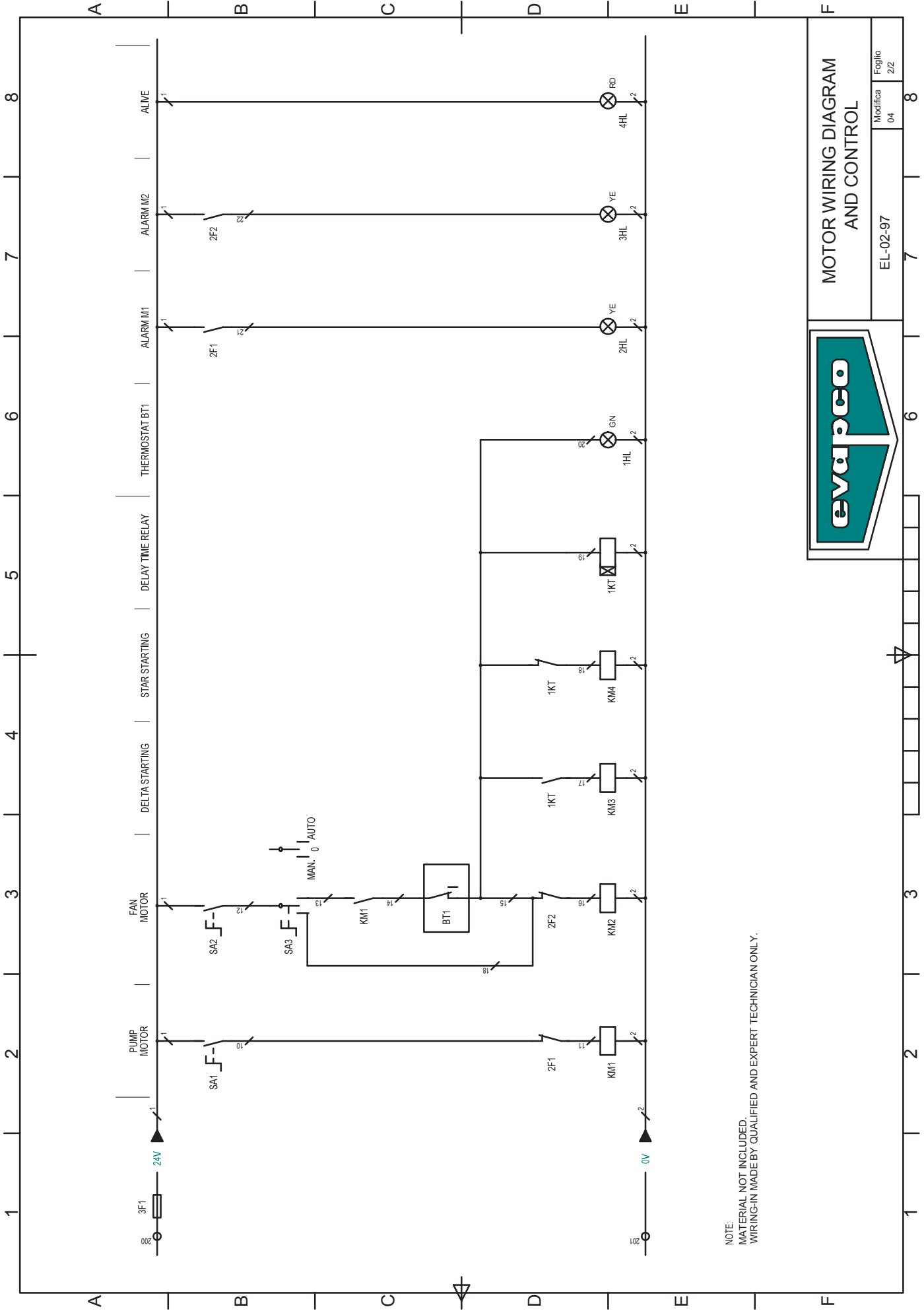


MOTOR WIRING DIAGRAM AND CONTROL

EL-02-97
 Modifica 04
 Foglio 1/2

NOTE:
 WIRING-IN MADE BY QUALIFIED AND EXPERT TECHNICIAN ONLY.
 FOR NOMINAL ELECTRIC VALUES REFER TO "ENGINEERING BULLETIN".





NOTE:
 MATERIAL NOT INCLUDED.
 WIRING-IN MADE BY QUALIFIED AND EXPERT TECHNICIAN ONLY.



MOTOR WIRING DIAGRAM
 AND CONTROL

Modifica
 04

EL-02-97

Foglio
 2/2

1 2 3 4 5 6 7 8

FOR MOTORS SUPPLIED OUT OF EVAPCO EUROPE N.V. BELGIUM

Last Update: 05/11/2013

WEG ELECTRIC DATA FOR FAN MOTORS - W22 Line IE2 (High Efficiency)
ELEKTRISCHE DATEN LUEFTERMOTOREN WEG
DONNEES ELECTRIQUES POUR MOTEURS VENTILATEURS WEG

Size Baugrosse Grandeur	50 Hz					60 Hz (kW=50Hz)					60 Hz				
	S [rpm] (tr/min) 230/400V	P [kW]	In (amp)				S [rpm] (tr/min)	P [kW]	In (amp)			S [rpm] (tr/min) 440V	P [kW]	In (amp)	
			220V	230V	240V	380V			400V	415V	380V			400V	415V
100L-6	940	1.5	6.50	6.45	6.42	3.76	3.71	3.71	3.71	3.71	1125	1.8	3.85	3.74	3.58
112M-6	965	2.2	10.10	10.30	10.40	5.84	6.04	6.04	6.04	6.04	1160	2.6	5.75	5.82	5.58
132M-6	960	4	16.80	16.50	16.40	9.74	9.46	9.5	9.5	9.5	1150	4.8	9.82	9.60	9.20
80-4	1410	0.75	2.87	2.84	2.78	1.66	1.61	1.61	1.61	1.61	1700	0.85	1.62	1.60	1.54
90S-4	1440	1.1	4.27	4.17	4.08	2.47	2.36	2.36	2.36	2.36	1729	1.3	2.50	2.47	2.37
90L-4	1440	1.5	5.74	5.67	5.57	3.32	3.22	3.22	3.22	3.22	1730	1.8	3.36	3.26	3.12
100L-4	1435	2.2	8.29	8.07	7.89	4.80	4.64	4.56	4.56	4.56	1720	2.6	4.86	4.65	4.46
100L-4	1420	3	11.0	10.7	10.5	6.35	6.17	6.07	6.07	6.07	1705	3.6	6.56	6.29	6.03
112M-4	1440	4	14.8	14.5	14.2	8.56	8.32	8.20	8.20	8.20	1730	4.8	8.85	8.49	8.14
132S-4	1460	5.5				10.8	10.5	10.3	10.3	10.3	1755	6.3	10.60	10.20	9.78
132M-4	1455	7.5				14.9	14.1	13.9	13.9	13.9	1750	8.5	14.30	13.80	13.23
160M-4	1470	11				21.9	21.2	20.9	20.9	20.9	1765	12.5	21.30	20.60	19.74
160L-4	1465	15				29.6	28.7	28.2	28.2	28.2	1760	17	28.70	28.00	26.83
180M-4	1465	18.5				36.3	35.1	34.7	34.7	34.7	1760	21	35.30	34.00	32.58
180L-4	1465	22				41.8	40.5	39.9	39.9	39.9	1760	25	40.80	39.30	37.66
200M-4	1470	30				58.0	56.2	55.5	55.5	55.5	1765	36	59.90	57.70	55.30
225S/M-4	1475	37				69.6	66.6	64.9	64.9	64.9	1770	42	67.30	64.90	62.20
225S/M-4	1475	45				83.4	80.7	79.5	79.5	79.5	1770	53	84.60	81.60	78.20
250S/M-4	1475	55				101.0	97.1	94.6	94.6	94.6	1770	63	98.80	95.40	91.43

In [A] : Rated Current / Nennstrom / Courant Nominal
S [rpm] : Rated Speed / Drehzahl / Vitesse Nominale
P [W] : Power / Nennleistung / Puissance

Standard values on motor nameplate
Values which motor can operate
Values not available for the selected items

For 480 V & 500 V = special motor winding, is not the same multi voltage motor as for 380/400/415V 50Hz & 440/460V 60Hz !!!

NOTE: Multivoltage motors in 220-230-240V/50Hz or 460V/60Hz with same power of 50Hz are IE2 as standard
Multivoltage motors in 380-400-415V/50Hz or 460V/60Hz with same power of 50Hz are IE2 as standard
Other kW/V/Hz combinations motors become IE1



Monoblock centrifugal pumps – MP Series

ELECTRIC MOTOR TABLE

PUMP model	MOTOR kW	220-230/380-400 50 Hz				380-400/660-690 50 Hz				---/440-460 60 Hz				440-460/--- 60 Hz			
		Rated current (A)	Starting current (A)	Rated speed (rpm)	Rated speed (rpm)	Rated current (A)	Starting current (A)	Rated speed (rpm)	Rated speed (rpm)	Rated current (A)	Starting current (A)	Rated speed (rpm)	Rated speed (rpm)	Rated current (A)	Starting current (A)	Rated speed (rpm)	Rated speed (rpm)
EVAPCO PUMP #15	0,37	1,55-1,52/0,89-0,87	9,15-8,97/5,28-5,15	1415-1425	1415-1425					---/0,86-0,84	---/5,1-5,0	1715-1725	1715-1725				
EVAPCO PUMP #15	0,55	2,31-2,27/1,34-1,31	13,6-13,4/7,91-7,73	1415-1425	1415-1425					---/0,82-0,80	---/4,9-4,8	1715-1725	1715-1725				
EVAPCO PUMP #15	0,75	2,97-2,94/1,72-1,69	17,5-17,3/10,1-9,97	1415-1425	1415-1425					---/1,52-1,48	---/9,0-8,8	1725-1735	1725-1735				
EVAPCO PUMP #55	1,1	4,27-4,17/2,47-2,4	27,8-26,5/16,1-15,6	1440-1450	1440-1450					---/2,50-2,40	---/16,3-15,6	1740-1750	1740-1750				
EVAPCO PUMP #57E	1,5	5,73-5,67/3,32-3,26	36,1-35,7/20,9-20,5	1430-1440	1430-1440					---/2,95-2,87	---/18,6-18,0	1735-1745	1735-1745				
EVAPCO PUMP #57E	2,2	8,25-8,07/4,78-4,64	54,5-52,1/31,5-30,6	1415-1425	1415-1425					---/4,86-4,65	---/32,0-30,7	1710-1720	1710-1720				
EVAPCO PUMP #58	4	14,1-13,8/8,18-7,91	98,7-96,6/57,3-55,4	1445-1450	1445-1450					---/8,3-8,09	---/58,1-56,6	1740-1745	1740-1745				
EVAPCO PUMP #59	4	14,1-13,8/8,18-7,91	98,7-96,6/57,3-55,4	1445-1450	1445-1450					---/8,3-8,09	---/58,1-56,6	1740-1745	1740-1745				
EVAPCO PUMP #106	5,5					10,8-10,5/6,23-6,07	78,8-76,7/45,5-44,3	1455-1460	1455-1460					10,6-10,2/-	74,2-71,4/-	1755-1760	1755-1760
EVAPCO PUMP #196E	7,5					14,4-13,9/8,27-8,07	122-118/70,3-68,6	1460-1465	1460-1465					13,9-13,2/-	118,1-112,2/-	1760-1770	1760-1770
EVAPCO PUMP #196E	11					21,1-20,7/12,1-12,0	148-145/87,0-84,0	1465-1470	1465-1470					20,9-20,4/-	146,3-142,8/-	1765-1770	1765-1770