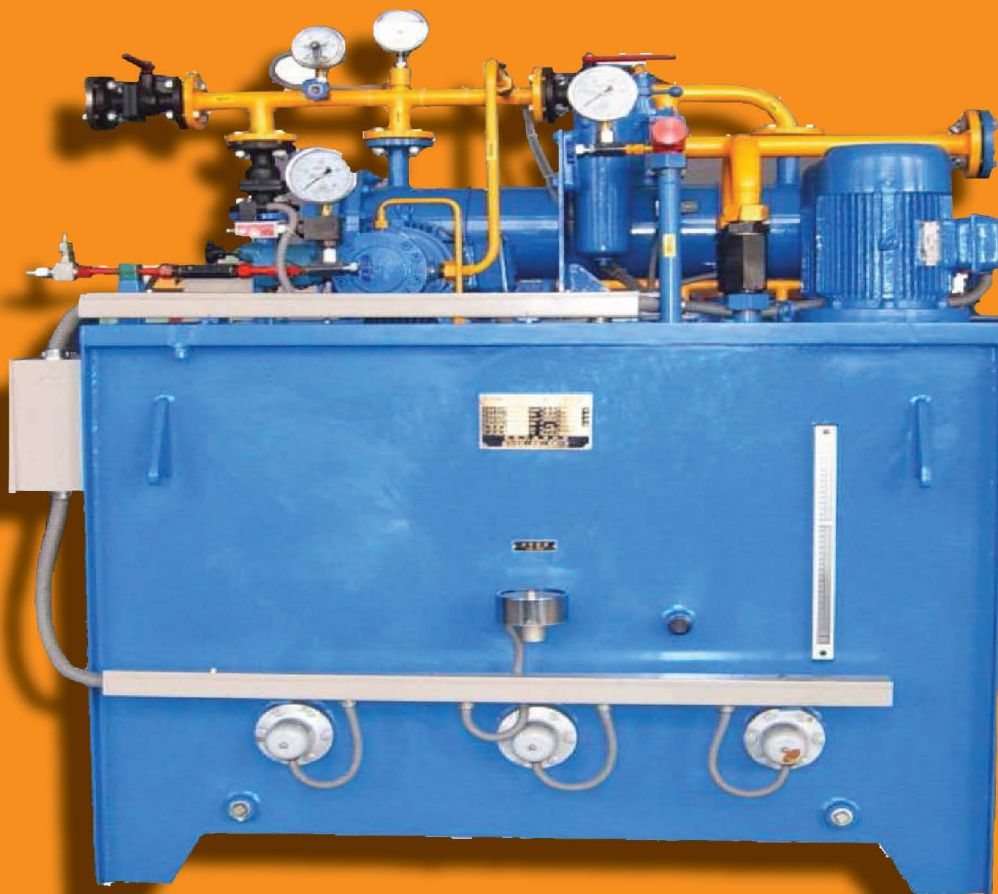


XRZ Series Thin Oil Lubricator





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Hellenic Motors

Quality Assurance Certificate EN ISO 9001:2008
Certificate Reg.No. 04100970683

XRZ Series Thin Oil Lubricator

1.Usage :

The product mainly applies to mechanical thin oil circle lubrication system of cement metallurgy, rolling, mine energy sources, light industry, transportation petrochemistry and power industries , which will supply lubrication oil to friction parts such as gears and bearings of the machine to reduce friction and cool lubrication and ensure oil supply and lubrication quality and machine's continuous running. Its medium is N22-N460 extreme pressure industry gear lubrication oil or other oils.

The product consists of thin oil lubrication station, instrument panel and electrical control cabinet. The oil station is an integral unit and can be directly installed on smooth cement floor for use, no special foundation is required.

Model Code : applied at choose

XRZ	-	#	#	#	
					Omit: gear-driven pump, L: screw pump
					P: PLC control
					Omit: relay, contact control
					Flow : L/min
					Thin oil lubricator

For example: for thin oil lubrication unit with nominal flow of 125L/m and controlled by PLC,oil pump is gear pumps,XRZ-125P will be chosen.

2. Operation Principle

The thin oil station is comprised of oil box,oil pump, cooler, filter, electrical control panel, instrument board, pipes and valves.

Oil will be drawn out from oil box by gear pump and directly sent to lubricated parts through one-way valve, duplex tank mesh filter and aligned pipe oil cooler. Its highest operation pressure is 0.6MPa, normal pressure is 0.4MPa and lowest pressure is 0.2MPa. The pressure can be adjusted by safety valve according to requirement. The safety valve will automatically work and over oil will flow back to oil box when operation pressure of oil station is over than the pressure regulated by

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safety valve. The station is equipped with filtering, cooling and heating units and safety interlock, automatic control and alarm.

3. Performance Table

Model	Nominal flow L/min	Volume m ³	Operation pressure. MPa	Operation Temp. °C	Filter Accuracy mm	Motor Power kW	Filter Area mm ²	Heating Exchange area m ²	Cooling Water consump. m ³ /h	Heater Power kW
XRZ-6	6	0.15	0.4	40±3	0.12	0.55	0.05	0.6	0.36	2
XRZ-10	10								0.6	
XRZ-16	16	0.63				1.1	0.13	4	1	12
XRZ-25	25								1.5	
XRZ-40	40	1.0				2.2	0.19	5	2.4	12
XRZ-50	50								3	
XRZ-63	63								3.8	
XRZ-80	80	1.6				4	0.4	7	4.8	12
XRZ-100	100								6	
XRZ-125	125								7.5	
XRZ-160	160	2.0				5.5	0.4	12	9.6	18
XRZ-200	200								12	
XRZ-250	250	2.5				7.5	0.52	16	15	24
XRZ-290	290								17.4	
XRZ-315	315	2.8				11	0.83	20	19	24
XRZ-350	350								21	
XRZ-400	400	3.5				15	0.83	28	24	36
XRZ-500	500								30	
XRZ-630	630	5.0				18.5	1.31	50	38	48
XRZ-800	800								48	
XRZ-1000	1000	6.3				30	2.2	60	60	48

Notes: 1. Viscosity of lubrication oil is N22-N460 and filtering accuracy of 0.05mm, 0.08mm, 0.12mm may be chosen.
2. If river water is used as cooling water, filtering and sediment are required and the temperature must be ≤ 30 °C.
3. if flow is over 1000L/min, oil station will be designed according to user's requirements.

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4. Technical Feature

1. Thin oil station is equipped with two pumps, one works and the other is for spare. The spare pump may automatically start/stop according to operation.
2. It is not necessary to stop machine while changing and cleaning filtering mesh for use of duplex tank mesh filter, and it will automatically alarm when the mesh is blocked.
3. Magnetic oil return filter can absorb 99% magnetic materials.
4. Segregated electrical heater will prevent carbonation of lubrication oil. It is easy to change heater and machine can still run at change. Oil box temperature is displayed by digits and can be self-controlled.
5. All oil pipes of the station are seamless pipes. The pipeline is connected by flanges and welded by arc welding to prevent leakage.
6. Instrument board can be directly installed in the station, so user can easily accept it at site.
7. Oil box has maintenance hole, filtering and bubble removing units and level control. Oil box and pipes are antirusted before assembling and cleanliness can reach NAS11.
8. Terminal box is used for electrical connecting of the station, so it is easy to connect.
9. Imported PLC control is used for electrical, and DCS interface is equipped. All electrical elements are imported or produced according to foreign technology. The electrical control panel can be local and remote controlled.
10. Thin oil station, electrical control panel and instrument board are interlocked with center control of the machine, so automatic management without worker can be achieved.

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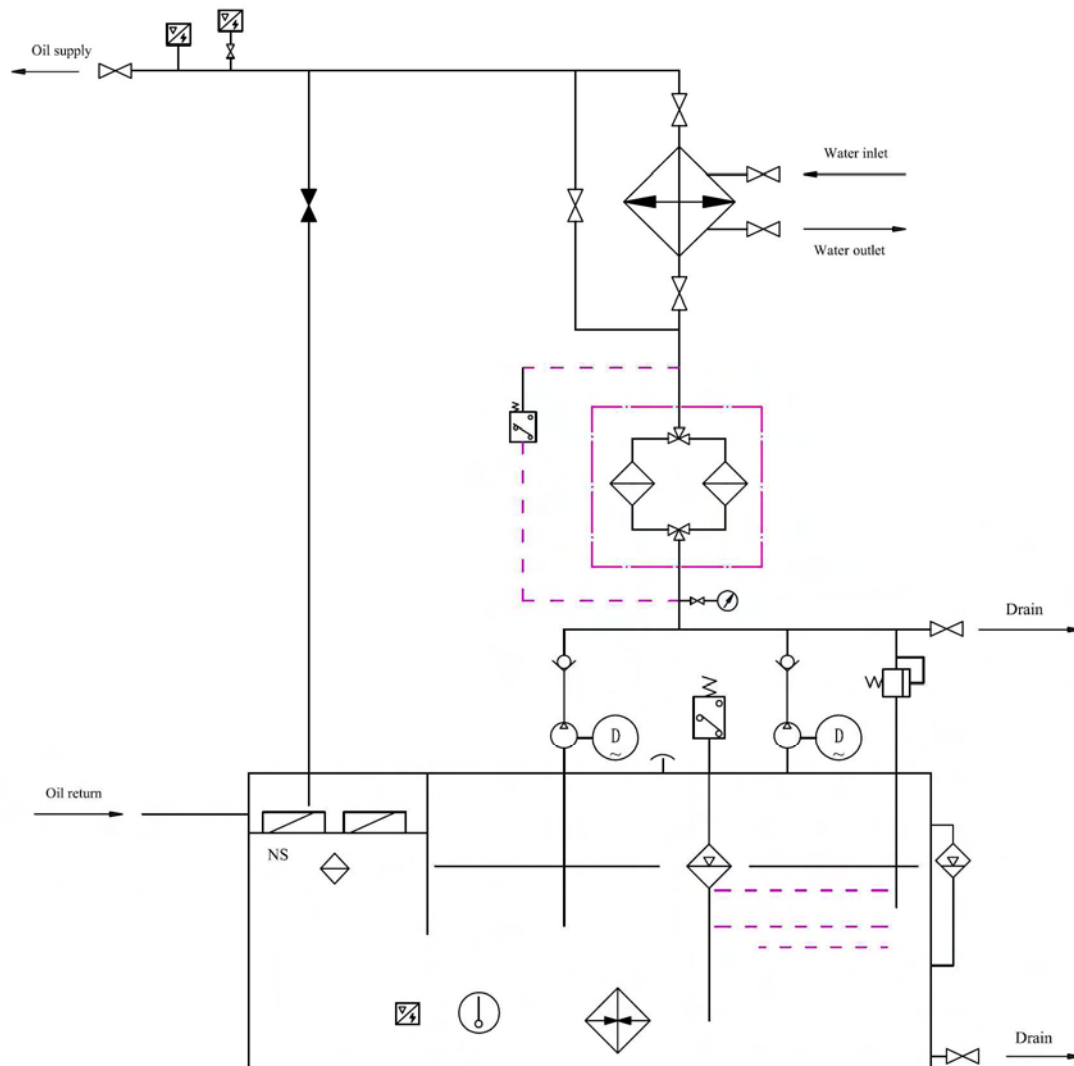
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5. System Principle Drawing



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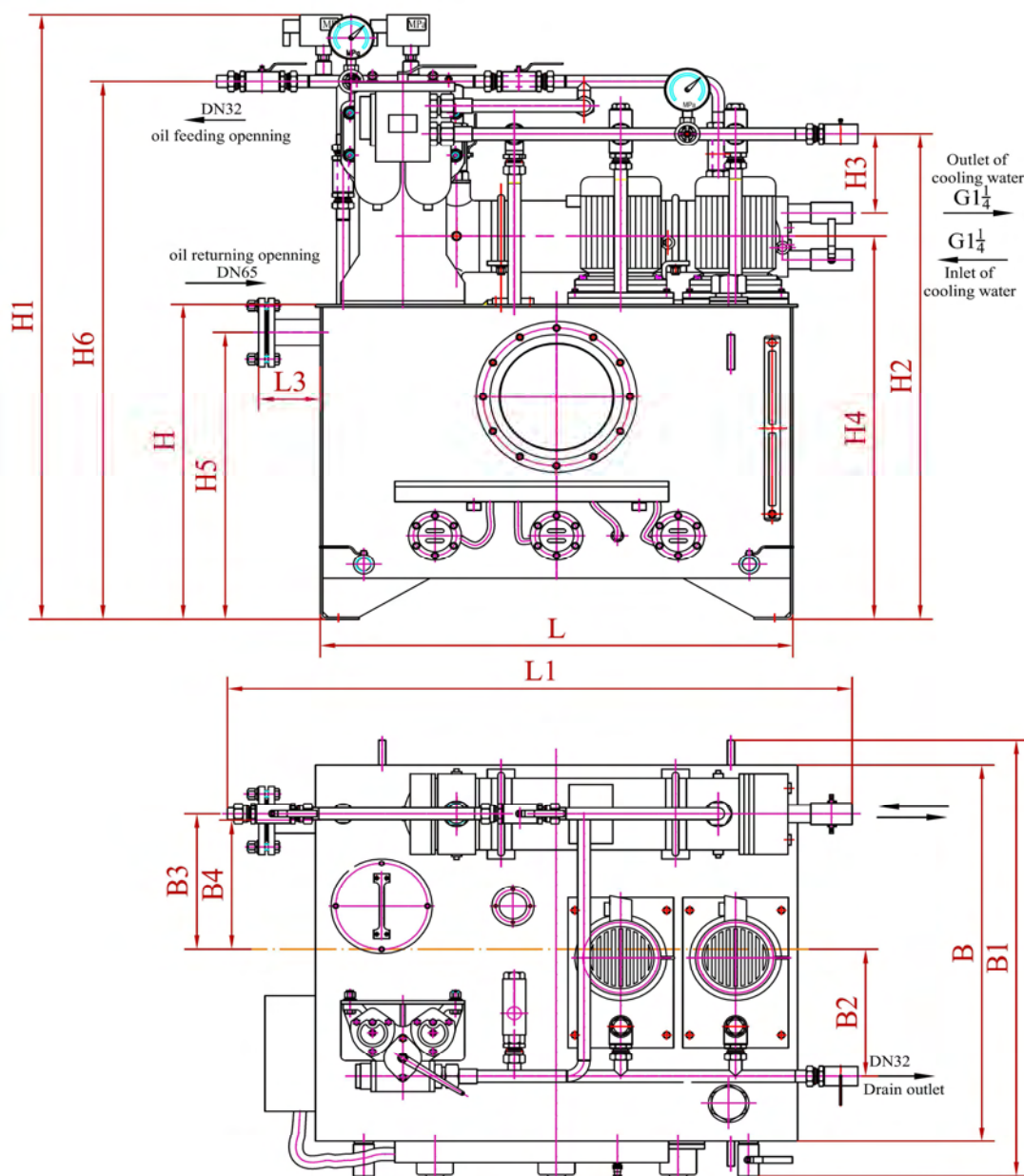
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6. XRZ 6-200 Appearance and Installation Dimension



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XRZ 6-XRZ200 Oil Station Dimension

Model	L	L1	L2	L3	H	H1	H2	H3	H4	H5	H6
XRZ-6	800	1250	300	100	500	848	713	52	588	400	800
XRZ-10											
XRZ-16	1160	1660	300	100	800	1232	1085	78	893	700	1175
XRZ-25											
XRZ-40	1500	2000	350	100	950	1518	1240	110	1108	850	1450
XRZ-63											
XRZ-80											
XRZ-100	1800	2300	350	100	1000	1603	1305	110	1158	880	1530
XRZ-125											
XRZ-160	2100	2600	400	100	1050	1780	1400	140	1258	920	1700
XRZ-200											

XRZ 6-XRZ200 Oil Station Dimension(continued)

Model	B	B1	B2	B3	B4	CN1	DN2	DN3	DN4	DN5
XRZ-6	600	750	255	220	125	15	25	20	20	15
XRZ-10										
XRZ-16	1000	1150	410	363	175	25	50	40	40	25
XRZ-25										
XRZ-40	1000	1150	470	390	248	32	50	40	40	32
XRZ-63										
XRZ-80										
XRZ-100	1200	1350	560	444	170	40	80	40	40	40
XRZ-125										
XRZ-160	1250	1400	590	460	220	50	100	65	65	50
XRZ-200										

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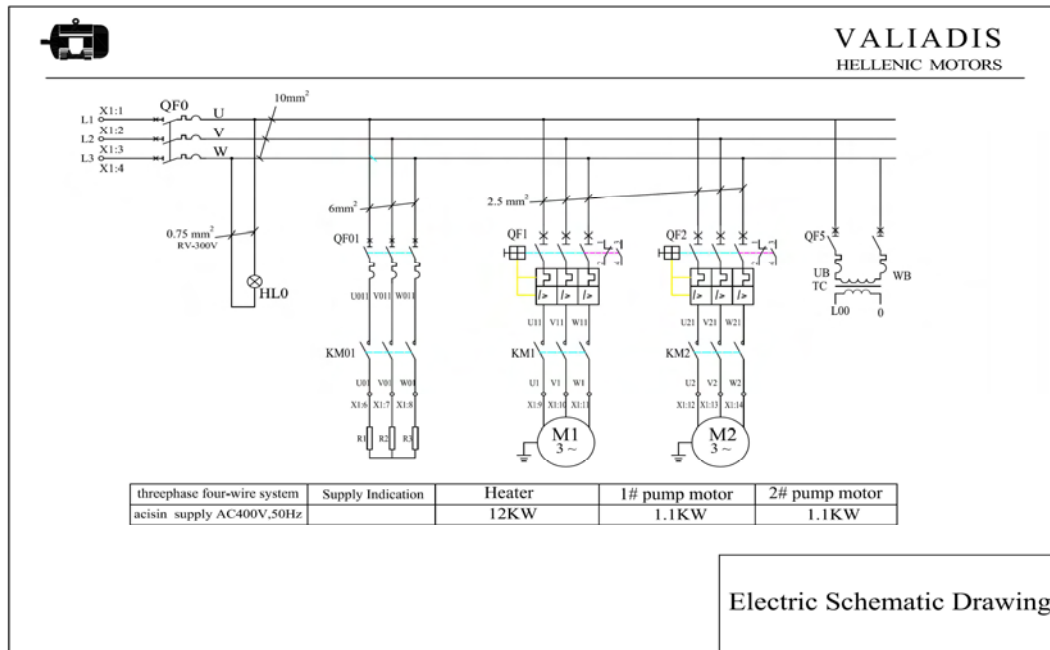
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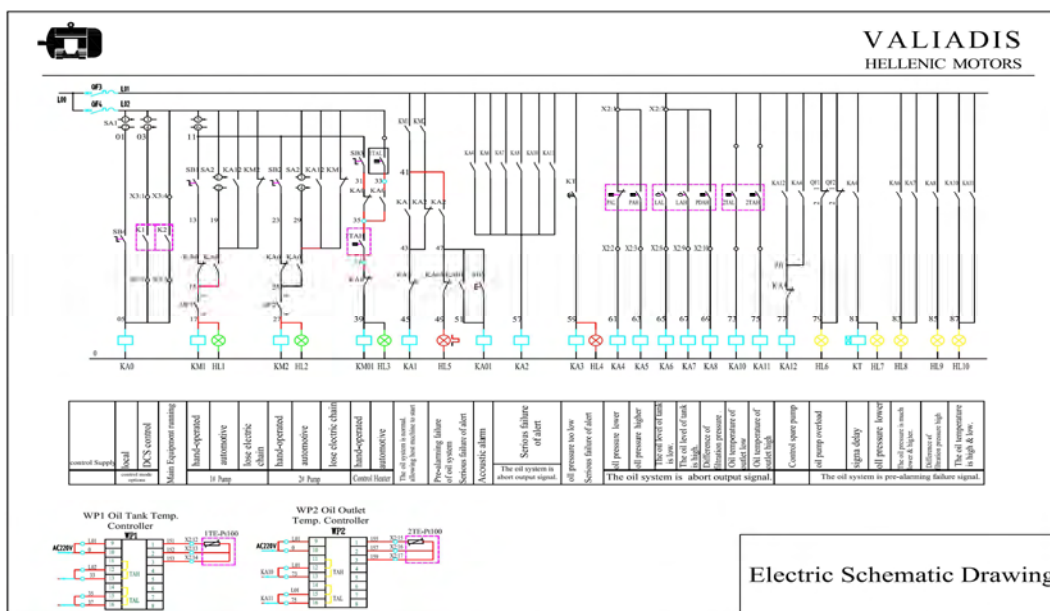
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Examples of electric schematic drawings

a)



b)



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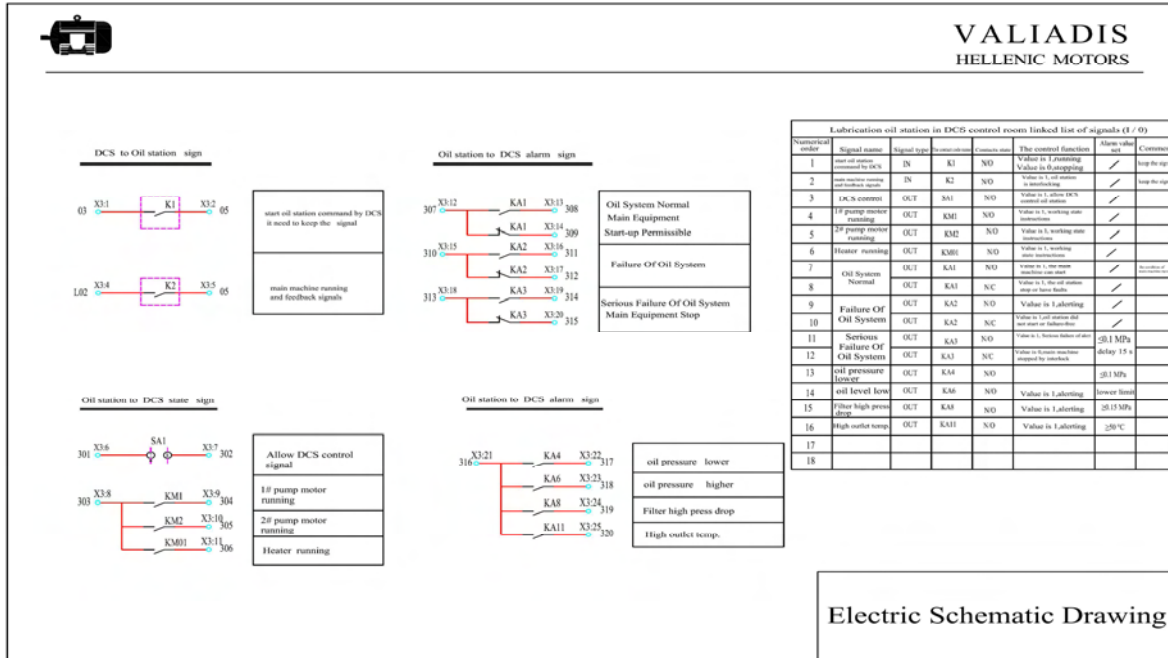
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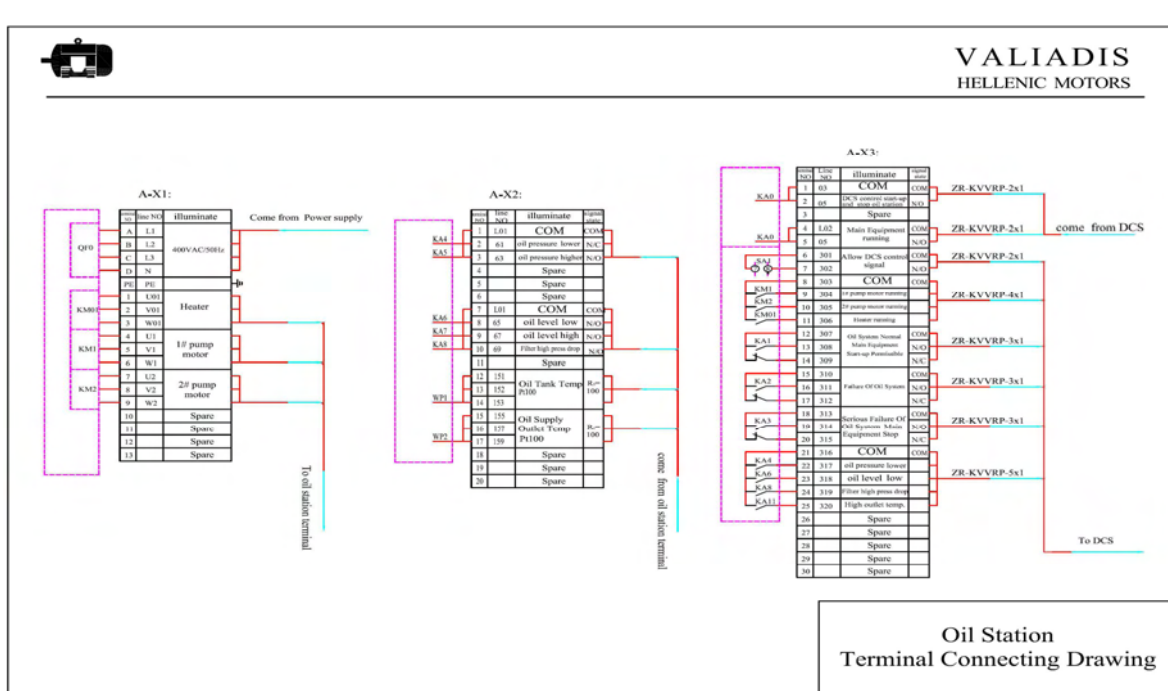


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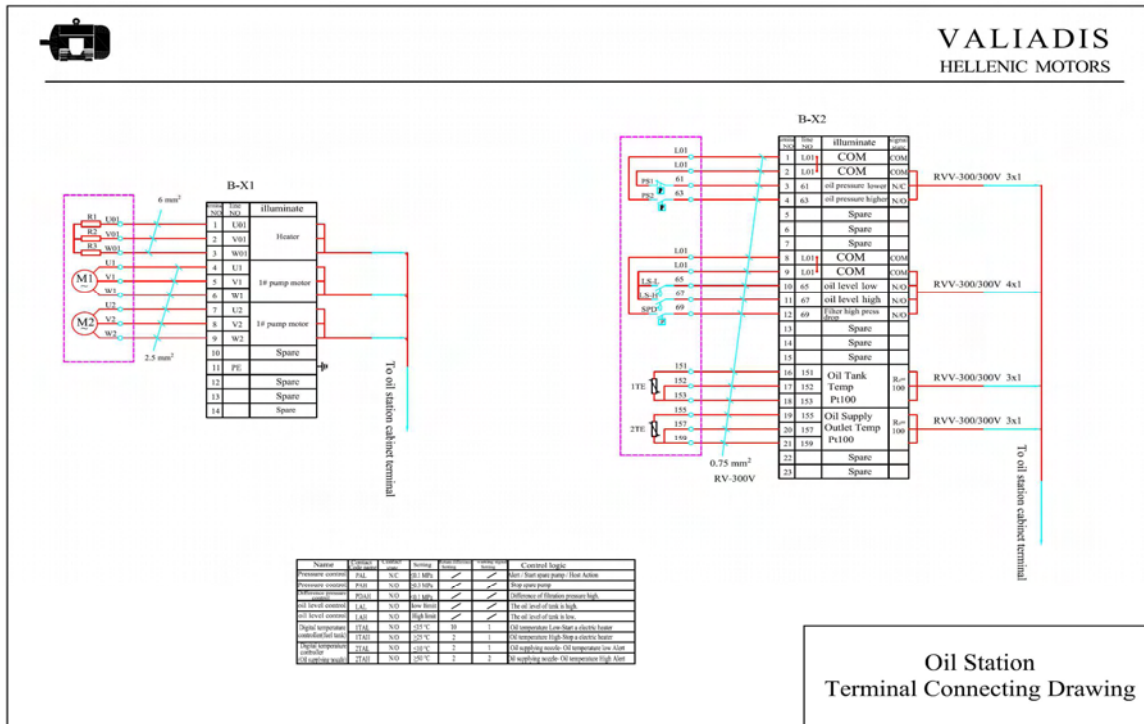


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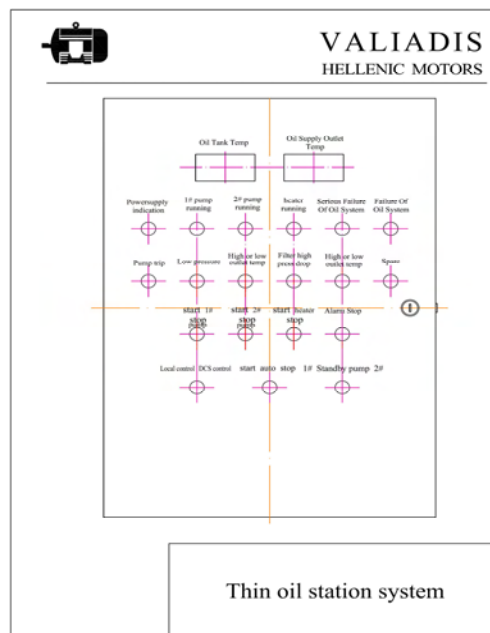
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