Hydraulic Pump Unit

No. 6907-34914 Pump Unit

with 4 separate clamping circuits

max. operating pressure 400 bar

Order No.	Article No.	Clamping circuits	For pressure-free coupling [l/min.]	Type of valves	Hydraulic system	Mode of operation	kg
61853	6907-34914	4	2.5	4 x 3/2+DS	single acting	Remote control	46

Design:

Compact, electric driven hydraulic pump unit with single acting or double acting function, ready to use. The pump unit includes pressure switch, pressure relief valve, solenoid valve, pressure gauge and oil level control. The electrical control is equiped with main power switch, control light, socket for remote control panel, handle and cover.

Application:

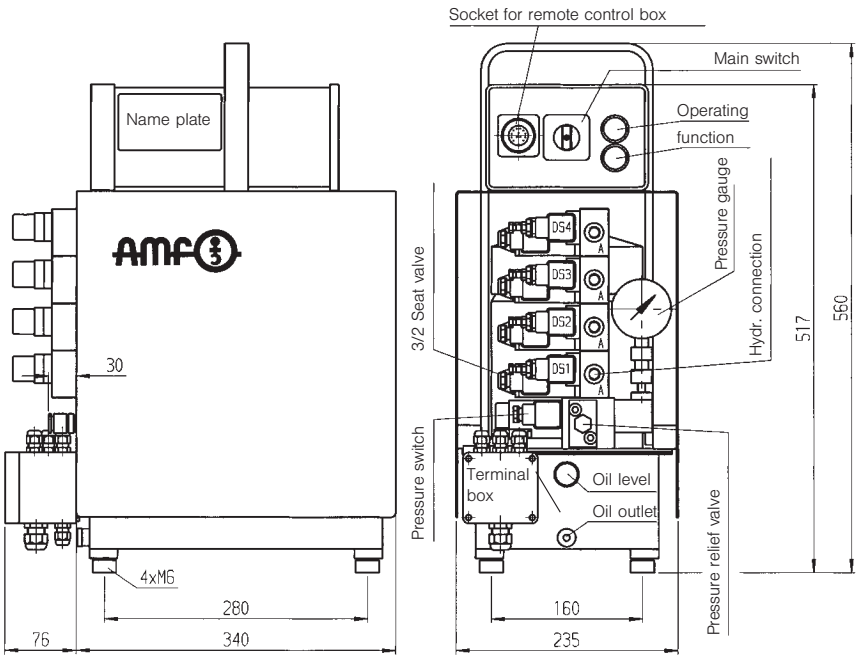
The pump unit is designed to operate hydraulic clamping systems.

Features:

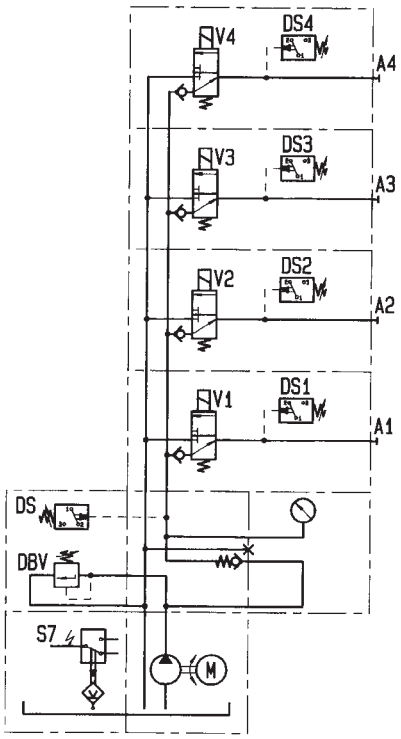
Radial piston pump powered by standard three phase motor with thermal overload protection by means of thermo switches. Each circuit is equiped with a pressure switch (DS) for external pressure control. Pressure setting with pressure switch (DS) and pressure relief valve. To ensure a proper function, the pressure at the pressure relief valve has to be approx. 40 bar above the pressure of the pressure switch. In case of a pressure drop, the pump unit cuts in to maintain the preadjusted pressure. Operating pressure is indicated by a control light. The pump unit operates in a switch off function.

Note:

To ensure safe hydraulic die-clamping, clamping at ram and table is carried out in each case by means of a separate clamping circuit. The four pressure switches (DS1-DS4) are used to provide external pressure monitoring of the four clamping circuits. The machine is automatically switched off if pressure drops in one clamping circuit. The machine is also automatically switched off, if the oil level becomes too low.
The electrical connection of this safety device to the electrical control of the press, has to be made by the customer.



Hydraulic circuit diagram:



Specifications subject to change.

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No. 6907 Pump Unit

Hydraulic specifications:

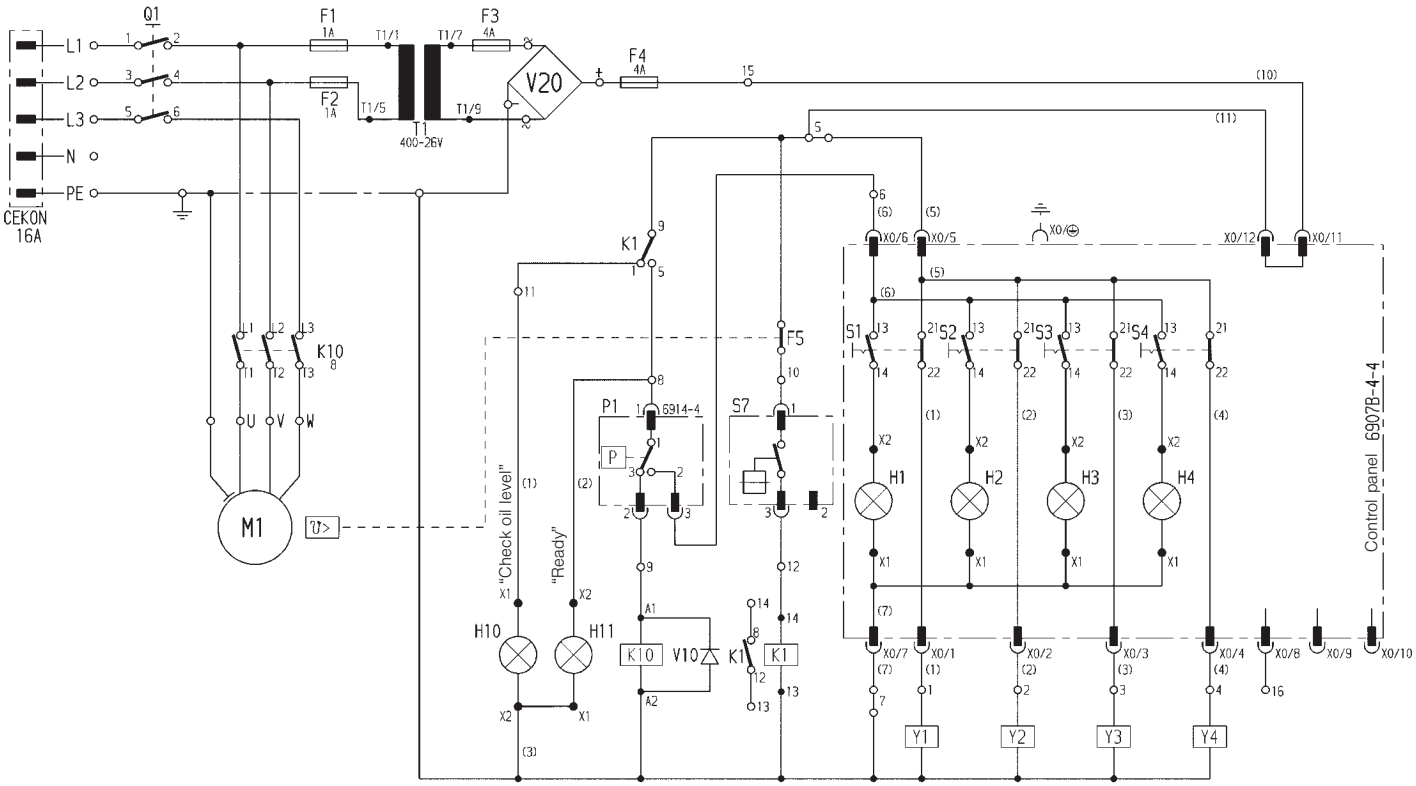
Max. operating pressure	400 bar
Min. operating pressure	40 bar
Total oil volume	approx. 4.5 l
Usable oil volume	approx. 2.4 l
Flow rate	2.5 l/min.
Type of valves	Four 3/2 seat valves and 4 pressure switches for external pressure monitoring
Hydraulic connection	G 1/4
Noise level	max. 70 dBA
Ambient temperature	–10° C to + 35° C
Operating position	vertical
Type of pump	Radial piston pump with 3 pistons
Load cycles	max. 500/h
Pressure fluid	Hydraulic oil HL (DIN 51524 Part 1) or HLP (DIN 51524 Part 2)
Oil recommendation	HLP 22 or HLP 32
Viscosity	HLP 22 ISO VG 22 DIN 51519 HLP 32 ISO VG 32 DIN 51519

Electrical specifications:

Operating voltage	400 V/50 Hz, 3-phase
Control voltage	24 V DC
Valve voltage	24 V DC
Motor speed	2900 r.p.m.
Direction of rotation	any
Motor power rating	1.1 kW
Pump motor	Standard three-phase A.C. motor
Rated current	3 A
Fuse at power input	16 A slow
Fuse for control circuit	1 A primary, 4 A secondary
Electrical connection	Cable (oil flex) 5×1.5 mm², 3 m long and CEE plug 16A 6h
Code class	IP 54
Duty cycle	max. 50% intermittent operation
Mode of control	Multiple pin connection socket for remote control
Oil level control	Float switch

Description of circuit diagram for pump unit with 4 clamping circuits and remote control

F1/F2/ F3/F4	Glass-body fuse
F5	Winding-protection contact in M1
H10	LED, red “CHECK OIL LEVEL”
H11	LED, green “READY”
K10	Contactor for Pump motor
M1	Pump motor 1.1 kW
K1	Relay
S1/H1– S4/H4	Illuminated push-button “CLAMP/RELEASE” circuit 1–4
S7	Float switch (open = dry resp. at rest; closed = with oil resp. in operation)
Q1	On/Off switch
P1	Pressure switch
T1	Transformer
V10	Diode
V20	Bridge rectifier
X0	Socket for remote control, 13 poles
Y1–Y4	Solenoid valve
( )	No’s of leads
—o—	Terminal strip / Terminal no.



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