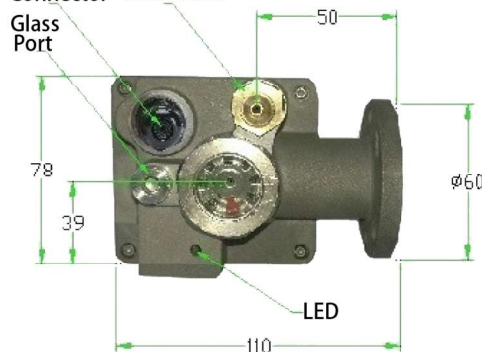







EOLR monitors and controls the oil level in the refrigerant compressors. In particular, the problem of bad oil distribution in multi-compressor packs is solved, thanks to active oil supply from a shared oil reservoir. The oil level regulator keeps the oil level between 40% to 60% height of the sight glass.

Electrical Oil Connector  
Connector (Built-in filter)



## LED status display

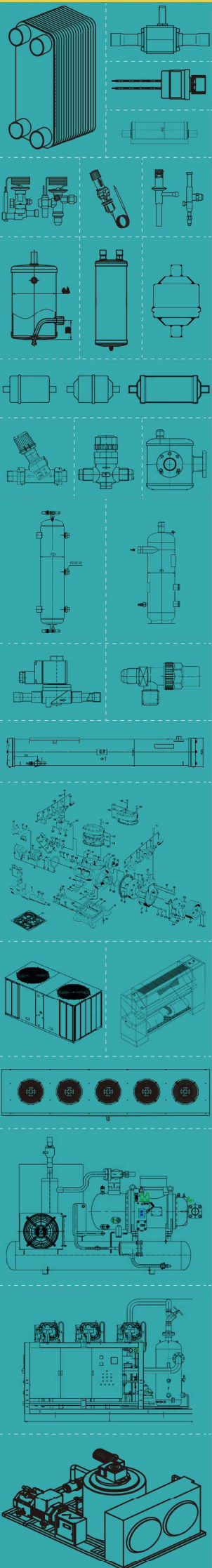
Level OK		
Filling (oil level low)		1Hz
Alarm (oil level too low)		
Internal error or supply voltage low		10Hz
Warning for glass prism cleaning		

## Scope of supply

- Oil Level Regulator
- O-ring for flange
- 7/16"-20 UNF SAE 37° Flared nut for oil connection

## Order data

Supply voltage ( V )	Order No.
AC 50/60Hz 230V ±10%	15G16 280 01
AC 50/60Hz 115V ±10%	15G16 280 02
AC 50/60Hz 24V ±10%	15G16 280 03



## Technical specifications

Supply voltages(see type plate)	AC 50/60Hz 230V±10%	18VA
	AC 50/60Hz 115V±10%	18VA
	AC 50/60Hz 24V±10%	18VA
Permitted ambient temperature	-30...+60°C	
Permitted rel. humidity	10...95%, without condensation	
Medium temperature	-30...+100°C	
Operating pressure	-1...46bar	
Test pressure	69bar	
Max. differential pressure	25bar	
Output relay	AC 240V,2.5A, C300; > 24V AC/DC> 20mA	
Mechanical service life	Approx. 10 <sup>6</sup> switching cycles	
Connecting cable	6xAWG18 (0.75mm <sup>2</sup> ) ; length 1m, colour coded and numbered+GNYE	
Protection class	IP65	
Housing material	Aluminium; PA66/PA6+GF	
Flange connection	3-/4-hole flange	
Oil connection	7/16"-20 UNF	
Permitted oils	Standard mineral and ester oil, without additive	
Permitted refrigerants	HFC,HCFC,CFC	
Mounting position	Horizontal(rotatable by 180°), ±2°	
Weight	Approx. 950g	

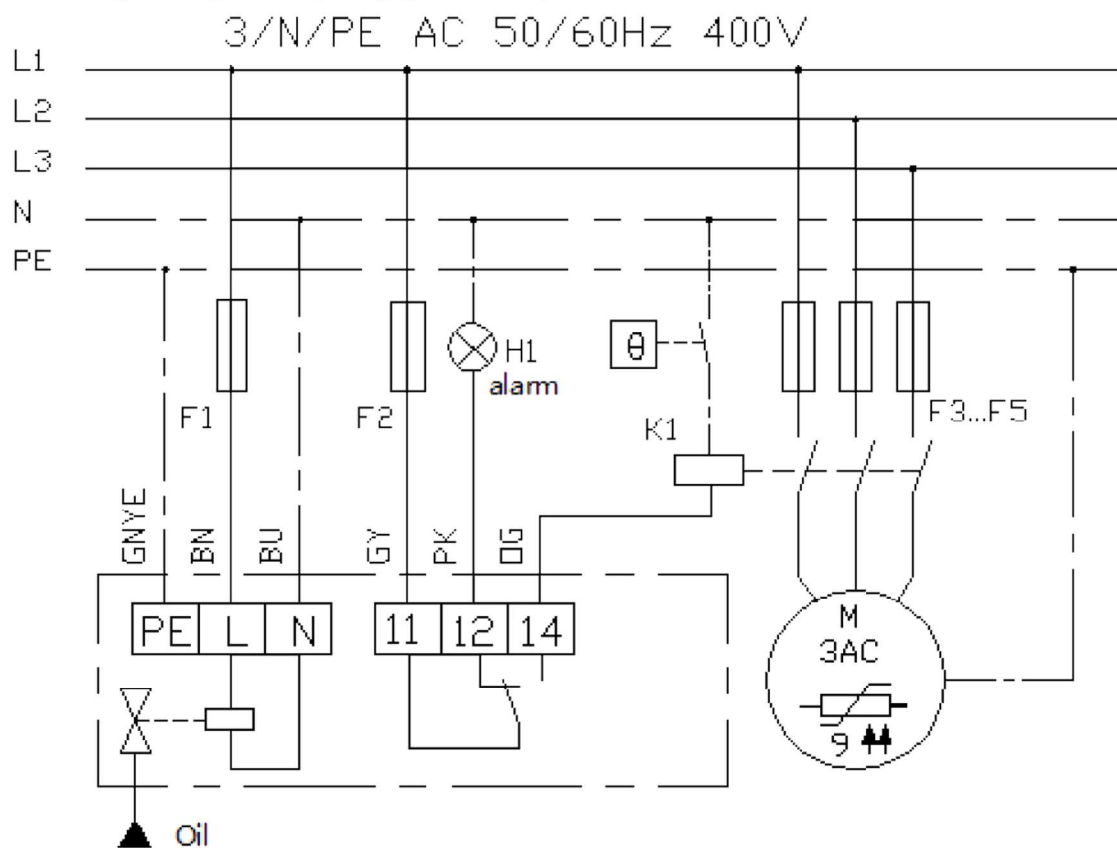
## Delays

Relay picks up after supply voltage hasbeen connected	3S±1S
Oil level monitoring after supply voltage has been connected	135S±5S
Alarm relay drops out after oil deficiency	5S±2S (锁定)
Switching cycle: Oil injection after oildeficiency	5S/10S/15S/20S/25S/30S
Switching cycle: Wait after oil deficiency	5S/5S/5S/5S/5S/5S
Switching cycle: Oil injection after alarm relay dropped out	30S
Switching cycle: Wait/pause after alarm relay dropped out	60S

## Functional description

After the EOLR is switched on, the alarm relay picks up after 3S, if no malfunction is present (closed-circuit principle). If a too low oil level is detected, the solenoid valve switches to oil injection, in a specified cycle: fill 5s/wait 5S, fill 10s/ wait 5s, fill 15s/ wait 5s, fill 20s/ wait 5s, fill 25s/ wait 5s,fill 30s/ wait 5s; If ,after 135s, an adequate oil level has not been reached, the alarm relay drops out. The last filling cycle that has been reached (fill 30s and wait 60s) stays active. If an adequate oil level has been reached, the alarm relay picks up again after a waiting time the filling cycle is reset. If there is a device malfunction (e.g. low supply voltage), the alarm relay drops out and is locked, regardless of the oil level, after approx. 5s. no filling procedure is performed. The lock can be released by interrupting the voltage supply for at least 5s. An LED positioned next to the sight glass visually signals the respective operating status.

## Wiring diagram (suggestion)



## Installation instructions

- Before the EOLR is switched on for the first time, the oil level should already be at 1/4 to 1/2 of the sight glass, to prevent the alarm relay from being deactivated.
- Prior to installation, ensure that the O-ring at the connecting flange is seated properly.
- The electrical connection needs to be carried out with correct supply voltage and frequency according to the wiring diagram.
- For use at low temperatures, an oil sump heater has to be installed, to ensure trouble-free operation of the device.
- An oil filter has to be installed in the oil infeed line of the EOLR, to prevent the solenoid valve seat from getting dirty.

## Features

- Provides maximum protection to compressors by precise oil level control;
- Alarm and status indication by LED;
- Free of error operation for oil foam and steam by optical measuring principle;
- High quality integral solenoid valve and High anti-fouling;
- 180° reversible mounting;
- Applicable to HIGH and LOW pressure oil management system;