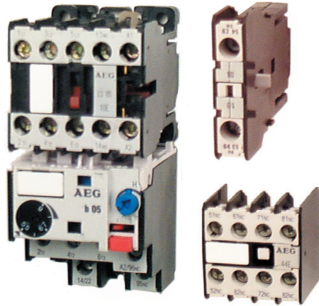


### 20 AMP GENERAL PURPOSE



**Type XLS05 STARTER**  
with Auxiliary Contacts

**INTERNATIONAL RATINGS**

**Technical Values**

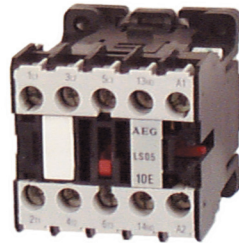
<b>Type</b>	<b>LS05</b> <b>SH05</b>
<b>Permissible ambient temperature</b>	<b>+60 C</b>
<b>Rated insulation voltage</b>	<b>660V</b>
<b>Mechanical lifespan</b>	<b>10,000,000</b>
<b>General Purpose Amps</b>	<b>20A</b>
<b>Permissible switching frequency</b>	<b>1200 ops/hr</b>
<b>Short-circuit protection(Class gL)</b>	
Highest rated fuse (without welding of contacts)	20A 16A
<b>Auxiliary switchHS05</b>	220V 6A
<b>AC-11-Duty Rated current (a.c.)</b>	500V 2,5A 600V 1,5A
<b>DC-11-Duty Rated current (d.c.)</b>	24V 5A 110V 1,2A 220V 0,6A
<b>Operating coil</b>	(Standard -20% - +10%) Closing 26VA
<b>Power consumption</b>	Holding Phs VA 4VA
<b>Switching times at 1, 0 U<sub>s</sub></b> (standard coil <sup>1</sup> )	closing delay 7-12 MS opening delay 6-13 MS

**LS05 CONTACTOR**  
**SH05 RELAY**  
**B05 OVERLOAD RELAY**

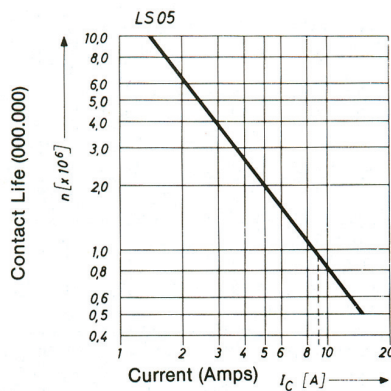
A stylish, and compact family of control relays, type SH05, contactors, type LS05, and overload relays, type B05. Complete with a comprehensive range of accessories, they provide the flexible solution for control systems.

A maximum 10 pole control relay, type SH05, with 6 auxiliary switches, is also available as a contactor, type LS05 with up to 6 auxiliary switches. Rated at 5 HP 480V, it has a high switching performance within its compact dimensions. Panel or DIN mountable.

Front mounting snap on auxiliary switch block, with up to 4 contacts in standard base module.



**Type LS05 CONTACTOR**



**Contact life of the main contacts**

The above diagram shows details of the contact life in relation to the breaking current, when switching resistive and inductive a.c. loads. The above does not relate to synchronising of phase position during switching.  
 $n$  = Contact Lifespan  
 $I_C$  = Breaking current

**Contactors/Relay Accessories**

A single pole auxiliary switch (1 N.O. or 1 N.C.) is available as an accessory, for side mounting, thus avoiding any increase in the high dimension.

Special auxiliary contacts for increased contact reliability at low voltages.

Front or side mounting time delay module 0.5 to 60 seconds.

Coil, overvoltage suppression module.

Mechanical interlock kit.



**Type B05 OVERLOAD RELAY**

**Thermal Overload Relay Type B05**

for direct mounting onto contactors type LS05, and LS07, also available with adaptor for separate mounting. Style and dimensions compatible with contactors.

DIN rail mounting uses an adaptor plate.

The lower coil, and auxiliary switch connection of the contactor is brought to a more accessible terminal.

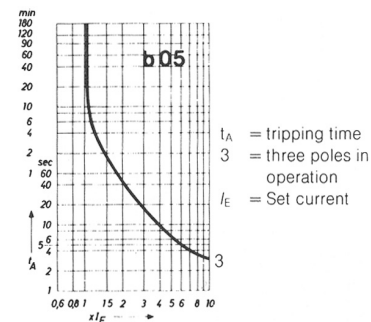
Ambient temperature compensation.

Single phase sensitivity is achieved by a differential tripping action.

Convertible Hand or Automatic reset feature. (Reset button: blue).

Separate red \*Stop\* button.

One N.C. auxiliary trip switch built in, with an additional \*Snap\* 1 N.O. auxiliary trip switch available if required.



**Type B05 Overload Relay Tripping Characteristic(Example)**

Curves show trip characteristic from cold condition. From warm condition, the tripping time can be reduced to approx. 25%. (Average values for all current range)

\* See page 73 for Dimensions.