

NR: 15-18_Product Launch – ESC Coils

DATE: 10.09.2018 TO: All customers

FROM: Emerson Commercial & Residential Solutions – Alco Controls, Europe

Subject: ESC Coils for use with all Solenoid Valves Series, OM Oil Management products and EX2/CX2 Expansion Valves.

Emerson Commercial and Residential Solutions is pleased to announce the release of the new range of ESC coils and the retainer kit (two O-rings, retainer and the new design screw cap). The range includes UL approved, high wattage and ATEX versions, to cover all applications and all common supply voltages.

These new range of coils will replace the existing ASC and ASC3 coils for all products incorporating a coil.

Ordering parts:

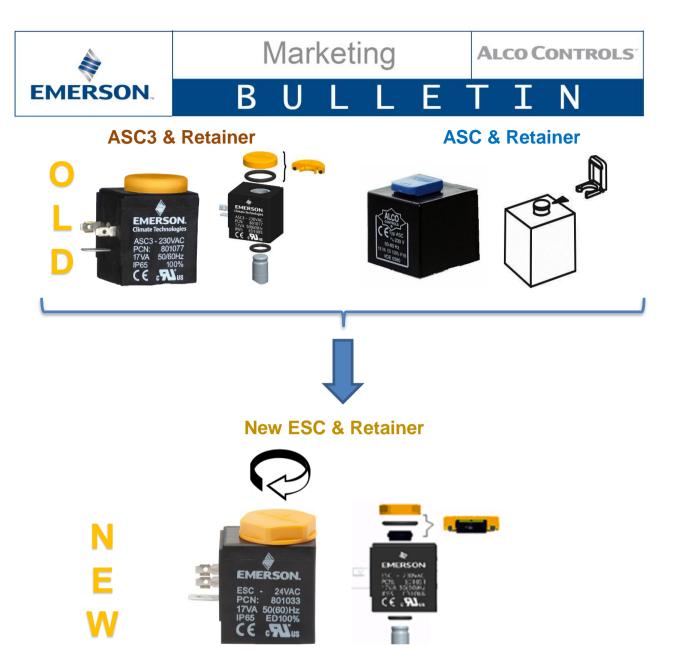
Туре	Part code Single/Multipack	Nominal Voltage, frequency	Electrical connection/ Protection	Applicable for	Marking
ESC-24VAC	801033/801033M	24VAC, 50Hz		EX2/CX2, OM3/4 110RB, 200RB,	CE & UL
ESC-230VAC	801031/801031M	230VAC, 50Hz		200RH 240RA, 540RA, M36	CE & UL
ESC-24VDC	801030/801030M	24VDC	DIN plug/	110RB, 200RB, 240RA, 540RA, M36	CE
ESC-120VAC	801032/801032M	120VAC, 50Hz	IP65		CE & UL
ESC-W24VAC	801028/801028M	24VAC, 50Hz			CE
ESC-W230VAC	801029/801029M	230VAC, 50Hz			CE
ESC-EX24VAC	801035	24VAC, 50Hz	3 m cable molded	110RB, 200RB, 200RH, 200RBFLR	CE & ATEX
ESC-EX230VAC	801036	230VAC, 50Hz			CE & ATEX

Note 1: Coils are delivered including retainer kit (two O-rings, retainer and the screw cap)

Plug/cable assemblies have remained unchanged. Please order plug/cable assemblies separately (see accessories table on page 4).

Note 2: Multipack is 20 pieces.

Note 3: The ESC coils can be use at 60 Hz frequency also, keeping in mind that the MOPD will decrease.



The ESC coil has a new screw cap design, different than the old version which has a pressing cap.

Comparison:

Description	ASC3 series	ASC series	ESC series		
Voltage, frequency		Identical			
Performance	Identical				
Fastening/Retainer	Orange cap	Blue clip	Orange screw cap		
Fasten type	Pressing	Pressing	Screwing		
IP65 protection	Two O-rings, plus	Built in	Two O-rings, retainer		
1F65 protection	the pressing cap	Built III	and the screw cap		
Electrical connection plug	Identical: DIN plug (ATEX version: 3 m cable molded to coil)				
Dimensions	Minor difference (see layout drawings)				
CE marking	Yes				
UL approval	Yes	No	Yes		
Molding material	PPS	Epoxy	PPS		
ATEX version	No	Yes (kit: coil + plug)	Yes (3m molded cable)		
High wattage version for					
OM5 in order to achieve	Available	Not available	Available		
100 bar MOPD					
Accessories:	ASC-N15/30/60				
(see accessories selection	PG9 Plug / PG11 Plug				
table on page 4)	DS2-N15				

Ordering/replacement coils for all solenoid valves 110RB, 200RB, 240RA, 540RA, M36 and electronic expansion valves EX2, CX2:

ASC coil shall be replaced			ESC	
Туре	PCN		Type	PCN
ASC-24VAC Including blue clip	801062		ESC-24VAC Including retainer	801033
ASC-24VDC Including blue clip	801974	→	ESC-24VDC Including retainer	801030
ASC-230VAC Including blue clip	801064		ESC-230VAC Including retainer	801031
ASC-120VAC Including blue clip	801063		ESC-120VAC Including retainer	801032

Note: The documentations might refer to ASC coils. They will be modified in a transition time.

Ordering Parts for OM5 oil management:

ASC3 coil shall be replaced			ESC	
Туре	PCN		Type	PCN
ASC3-W24VAC including orange cap and two O-rings	801074		ESC-W24VAC Including retainer	801028
ASC3-W230VAC including orange cap and two O-rings	801075		ESC-W230VDC Including retainer	801029

Note: The documentations might refer to ASC3 coils. They will be modified in a transition time.

Ordering Parts for OM3/OM4 (including the kits) oil management:

ASC coil shall be replaced			ESC	
Type	PCN		Type	PCN
ASC-24VAC Including blue clip	801062		ESC-24VAC Including retainer	801033
ASC-230VAC Including blue clip	801064		ESC-230VAC Including retainer	801031

Note: The OM3/4 documentation is referring to ASC3. They will be modified in a transition time.

Oil management kit (OM3/OM4/OM5) which includes the coil and adapter will be delivered with new ESC coils. Part code number of oil management kits remain unchanged.



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Ordering Parts for solenoid valves 200RB-...FLR for use with propane R290 (ATEX):

ASC coil shall be replaced			ESC	
Туре	PCN		Type	PCN
ASC-24VAC+PG9 ATEX Including blue clip	801123		ESC-EX24VAC Including retainer	801035
ASC-230VAC+PG9 ATEX Including blue clip	801124		ESC-EX230VAC Including retainer	801036

Note: The ESC-EX, ATEX version coils have a molded cable, 3 m in length.

Accessories selection table:

A000330110	es selection table.					
Cable Asse	Cable Assembly for ESC Coils					
Туре	Part code Single/multipack	Description	Cable length	Temperature range		
ASC-N15	804570/804570M	Connector Coble	1.5 m	-50+80°C		
ASC-N30	804571/804571M		-50+60 C (valid for			
ASC-N60	804572	Relay	6.0 m	stationary use)		
Cable Asse	Cable Assembly for 24V DC Chopper Plug					
Туре	Part code Single pack	Description	Cable length	Temperature range		
D2-N15	804620	Chopper Plug (Low power assumption, 3W only, not released for mobile applications)	1.5 m	-10+80°C (valid for stationary use)	CAMP IN C.	
Others						
Туре	Part No.	Description				
Plug PG9	801012	Plug acc. EN175301 with cable gland				
Plug PG11	801013	Flug acc. EN175501 with cable glaffd				
ESC-K01	801034	ESC kit: Two O-rings, screw cap and retainer				
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Timing:

Emerson Commercial & Residential Solutions announces the start of phase-out of current ASC and ASC3 product ranges within a transition period and replacement ESC.

ESC: sample ordering*	From beginning of September 2018		
ESC: ordering	From middle of October 2018		
ESC: delivery	From beginning of November 2018		
ASC/ASC3: last order for production	February 2019; for deliveries latest June 2019		
ASC/ASC3: ordering after February	Emerson will acknowledge with equivalent ESC coils		
2019			

^{*} ESC samples available in versions:

- ESC-230 VAC 50 Hz, 801031
- ESC-24 VAC 50 Hz, 801033

For any additional information, please contact Emerson local Sales representative.



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FAQ's

- Q) Can the existing blue clip or pressing cap be used with the new coil?
- A) No, please use the new retainer kit (two O-rings, retainer and the screw cap).
- Q) Can the O-rings from the ASC3 coils be used with the ESC coils?
- A) No, please use the O-rings dedicated to the ESC coils.
- Q) Is the use of the O-ring and the screw cap mandatory?
- A) Yes.
- Q) Is there a kit as spare part available?
- A) Yes, ESC-K01, PCN 801034.
- Q) Can I use the coil at 60 Hz frequency and 24Vac or 230Vac?
- A) It is not recommended without test as the MOPD of coils reduces at 60 Hz and the
 valve might not be able to open. It depends to maximum working differential pressure of
 system, duty and temperature.
- Q) Why ATEX versions (ESC-EX...) are recommended to use for time being in systems having A2L group of refrigerants (mildly flammable)?
- A) If system designed according to IEC 60335-2-40, ESC-EX... versions fulfill the requirement in term of resistance to temperature.
- Q) Can I use high wattage coils (ESC-W...) versions with CX2 or 200RH?
- A) Yes. The MOPD will increase and allow the valves to overcome higher differential pressure in CO2 systems. Please consult Emerson local sales offices.