

**Combination Starters, Reversing Combination Starters
Catalogue Number Explanation**

190E -								
190S -	*	*	*	*	-*	*	*	-*
191E -								
191S -								
1	2	3	4	5	6	7	8	9

Position	Catalogue No. Suffix	Options/Descriptions
1	190E – 190S – 191E – 191S –	Base catalogue number of 2-Component ECO Starters (max. 25A) Base catalogue number of 2-Component Compact Starters (up to 45A) Base catalogue number of 2-Component ECO Reversing Starters (max. 25A) Base catalogue number of 2-Component Compact Reversing Starters (max. 25A)
2	A B C D E F G	Code for contactor 100-C09 for 190E, 190S; 104-C09 for 191E, 191S 100-C12 for 190E, 190S; 104-C12 for 191E, 191S 100-C16 for 190E, 190S; 104-C16 for 191E, 191S 100-C23 for 190E, 190S; 104-C23 for 191E, 191S 100-C30 for 190E, 190S; 104-C30 for 191E, 191S 100-C37 for 190E, 190S; 104-C37 for 191E, 191S 100-C43 for 190E, 190S; 104-C43 for 191E, 191S
3	N	Code for style No enclosure (open type device)
4	One, two or three letters	Coil code (Indicates coil – voltage and – frequency) AC coil code (conventional coil: 12 ... 550V50 Hz) AC coil code (conventional coil: 12 ... 600V60 Hz) AC coil code (conventional coil: 24 ... 415V50/60Hz, double frequency) DC coil code (conventional coil: 9 ... 250VDC). Two letter code starting with “Z” or “D”; “D” indicates integrated bi-directional diode between coil terminal DC coil code (electronically controlled coil: 24VDC). Two letter code starting with “E” DC coil code (double winding coil: 9 ... 110VDC). Two letter code starting with “Y”

Combination Starters, Reversing Combination Starters (continued)

5	<p>1 2 3 4 5 6</p>	<p><i>Code for auxiliary contact configuration of contactors</i> <i>One N.C. contact</i> <i>One N.O. contact</i> <i>One N.O. and one N.C. contact</i> <i>Two N.O. contacts</i> <i>One N.O. and two N.C. contacts</i> <i>Two N.O. and one N.C. contacts</i></p>
6	<p>-C -D -F -J -K -M</p>	<p><i>Code for circuit breaker</i> <i>Circuit breaker 140M-C2E</i> <i>Circuit breaker 140M-D8E</i> <i>Circuit breaker 140M-F8E</i> <i>Circuit breaker 140M-C2T</i> <i>Circuit breaker 140M-D8T</i> <i>Circuit breaker 140M-F8T</i></p>
7	<p>A16 A25 A40 A63 B10 B16 B25 B40 B63 C10 C16 C20 C25 C32 C45</p>	<p><i>Code for current range</i> <i>0.1-0.16A</i> <i>0.16-0.25A</i> <i>0.25-0.4A</i> <i>0.4-0.63A</i> <i>0.63-1A</i> <i>1-1.6A</i> <i>1.6-2.5A</i> <i>2.5-4A</i> <i>4-6.3A</i> <i>6.3-10A</i> <i>10-16A</i> <i>14.5-20A</i> <i>18-25A</i> <i>23-32A</i> <i>32-45A</i></p>
8	<p>A B C D E R S</p>	<p><i>Code for front mount auxiliary and trip indication contact configuration of circuit breakers</i> <i>One N.C. auxiliary contact</i> <i>One N.O. auxiliary contact</i> <i>One N.O. and one N.C. auxiliary contact</i> <i>Two N.O. auxiliary contacts</i> <i>Two N.C. auxiliary contacts</i> <i>One N.O. magnetic and thermal trip indication contact and one N.C. auxiliary contact</i> <i>One N.O. magnetic and thermal trip indication contact and one N.O. auxiliary contact</i></p>

Combination Starters, Reversing Combination Starters (continued)

9	-TE -KN -KY	Code for circuit breaker accessories Spacer module Lockable knob (black) Lockable knob (red/yellow)
	-A02 -A20 -A11	Code for additional side mount auxiliary contact configuration for circuit breakers Two N.C. contacts Two N.O. contacts One N.O. contact and one N.C. contact
	-R00 -R01 -R10 -R11 -M11	Code for additional side mount trip indication contact configuration for circuit breakers One N.O. magnetic and thermal trip indication contact and one N.O. magnetic trip indication contact One N.O. magnetic and thermal trip indication contact and one N.C. magnetic trip indication contact One N.C. magnetic and thermal trip indication contact and one N.O. magnetic trip indication contact One N.C. magnetic and thermal trip indication contact and one N.C. magnetic trip indication contact One N.C. magnetic trip indication contact and one N.O. magnetic trip indication contact
	-JE -D -R -V -SP	Code for coil accessories Electronic interface Surge suppressor with diode Surge suppressor with RC Surge suppressor with varistor Socket and plug for control circuit
	-S01 -S10 -S11 -S20	Code for additional side mount auxiliary contact configuration for contactor One N.C. contact One N.O. contact One N.O. contact and one N.C. contact Two N.O. contacts
	-F11 -F20 -F22	Code for additional front mount auxiliary contact configuration for contactor One N.O. contact and one N.C. contact Two N.O. contacts Two N.O. contacts and two N.C. contacts