

# Combination Starters – NEMA Rated Class 8538 – Fusible Disconnect Switch Type

## 3-POLE POLYPHASE - 600 VOLTS AC MAXIMUM - 50-60 HERTZ

Devices require 3 thermal units. See catalog 9065CT9701 for selection information. For Class J fuse clip, use Form Y91 (no additional charge).



### Fusible Full Voltage Type, with Melting Alloy Overload Relays

Ratings				Fuse Clip Size Amps	NEMA Type 1 General Purpose Enclosure	NEMA Type 4 & 4X Watertight and Dusttight Enclosure Stainless Steel (304) (Sizes 0-5)†	NEMA Type 4X Watertight, Dusttight and Corrosion Resistant Polyester Enclosure	NEMA Type 12/3R <sup>▲</sup> Dusttight and Driptight Industrial Use Enclosure			
Motor Voltage (Starter Voltage)	Max. HP Poly-phase	Coil Voltage *	NEMA Size		Type	Type	Type	With External Reset	Without External Reset		
200 (208)	3	208-60	0	30	SBG12V08	SBW12V08	SBW22V08	SBA22V08	SBA12V08		
	5		30	SCG12V08	SCW12V08	SCW22V08	SCA22V08	SCA12V08			
	7½		60	SCG13V08	SCW13V08	SCW23V08	SCA23V08	SCA13V08			
	10		60	SDG12V08	SDW12V08	SDW22V08	SDA22V08	SDA12V08			
	20		100	SEG15V08	SEW15V08	SEW25V08	SEA25V08	SEA15V08			
	25		200	SEG12V08	SEW12V08	.....	SEA22V08	SEA12V08			
	40		200	SFG15V08	SFW15V08	.....	SFA25V08	SFA15V08			
	75		400	SGG15V08	SGW15V08	.....	SGA25V08	SGA15V08			
	150		600	SHG13V08	SHW13V08	.....	SHA23V08	SHA13V08			
	3		0	30	SBG12V03	SBW12V03	SBW22V03	SBA22V03	SBA12V03		
230 (240)	5	240-60 220-50	0	30	SCG12V03	SCW12V03	SCW22V03	SCA22V03	SCA12V03		
	7½		60	SCG13V03	SCW13V03	SCW23V03	SCA23V03	SCA13V03			
	15		60	SDG12V03	SDW12V03	SDW22V03	SDA22V03	SDA12V03			
	25		100	SEG15V03	SEW15V03	SEW25V03	SEA25V03	SEA15V03			
	30		200	SEG12V03	SEW12V03	.....	SEA22V03	SEA12V03			
	50		200	SFG15V03	SFW15V03	.....	SFA25V03	SFA15V03			
	100		400	SGG15V03	SGW15V03	.....	SGA25V03	SGA15V03			
	200		600	SHG13V03	SHW13V03	.....	SHA23V03	SHA13V03			
	5		0	30	SBG13V06	SBW13V06	SBW23V06	SBA23V06	SBA13V06		
	460 (480)		10	480-60 440-50	0	30	SCG14V06	SCW14V06	SCW24V06	SCA24V06	SCA14V06
15		30	SDG16V06		SDW16V06	SDW26V06	SDA26V06	SDA16V06			
25		60	SDG14V06		SDW14V06	SDW24V06	SDA24V06	SDA14V06			
50		100	SEG13V06		SEW13V06	SEW23V06	SEA23V06	SEA13V06			
100		200	SFG13V06		SFW13V06	.....	SFA23V06	SFA13V06			
200		400	SGG13V06		SGW13V06	.....	SGA23V06	SGA13V06			
400		600	SHG12V06		SHW12V06	.....	SHA22V06	SHA12V06			
5		0	30		SBG13V07	SBW13V07	SBW23V07	SBA23V07	SBA13V07		
575 (600)		10	600-60 550-50		0	30	SCG14V07	SCW14V07	SCW24V07	SCA24V07	SCA14V07
		15			30	SDG16V07	SDW16V07	SDW26V07	SDA26V07	SDA16V07	
	25	60		SDG14V07	SDW14V07	SDW24V07	SDA24V07	SDA14V07			
	50	100		SEG13V07	SEW13V07	SEW23V07	SEA23V07	SEA13V07			
	100	200		SFG13V07	SFW13V07	.....	SFA23V07	SFA13V07			
	200	400		SGG13V07	SGW13V07	.....	SGA23V07	SGA13V07			
	400	600		SHG12V07	SHW12V07	.....	SHA22V07	SHA12V07			

\* Coil voltage code must be specified to order this product. Refer to standard coil voltage codes listed in selection table above or additional standard voltage codes shown on Page 4.

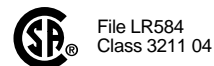
▲ NEMA Type 12 enclosures may be field modified for outdoor non-corrosive and non-service-entrance-rated applications; see Page 17 for more information.

**NOTE:** Some control transformers may require the use of oversized enclosures. Refer to control transformer selection table on Page 35.

### Fusible Disconnect Switch Type (Class H Fuse Clips), Single Phase

Motor Voltage	Max. HP	Coil Voltage	NEMA Size	Fuse Clips Size (Amps)	NEMA Type 1 General Purpose Enclosure	NEMA Type 4 & 4X Watertight and Dusttight Enclosure Stainless Steel (304)	NEMA Type 4X Watertight, Dusttight and Corrosion Resistant Polyester Enclosure	NEMA Type 12/3R <sup>▲</sup> Dusttight and Driptight Industrial Use Enclosure	
					Type	Type	Type	With External Reset	Without External Reset
120	1	120	0	30	SBG12S2V02	SBW12S2V02	SBW22S2V02	SBA22S2V02	SBA12S2V02
	2		30	SCG12S2V02	SCW12S2V02	SCW22S2V02	SCA22S2V02	SCA12S2V02	
	3		60	SDG12S2V02	SDW12S2V02	SDW22S2V02	SDA22S2V02	SDA12S2V02	
230	2	230	0	30	SBG12S2V03	SBW12S2V03	SBW22S2V03	SBA22S2V03	SBA12S2V03
	3		30	SCG12S2V03	SCW12S2V03	SCW22S2V03	SCA22S2V03	SCA12S2V03	
	7½		60	SDG12S2V03	SDW12S2V03	SDW22S2V03	SDA22S2V03	SDA12S2V03	

▲ NEMA Type 12 enclosures may be field modified for outdoor non-corrosive and non-service-entrance-rated applications; see Page 17 for more information.



Note that not all units are or explosion proof – consult factory.



# Contactors and Starters

## Type S, NEMA-style Variants

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### Variants – Operators

Description	For use on		Colour/Marking	Suffix to the contactor or starter reference (1)	Weight kg (lb)
	Class	Enclosure type			
Push buttons	8502, 8536	NEMA 1, 12	"Start-Stop"	<b>A</b>	–
	8702, 8736	NEMA 1, 12	"Forward-Reverse-Stop"	<b>A1</b>	–
			"High-Low-Stop"	<b>A2</b>	–
Pilot lights without operating interlock (2)	8502, 8536, 8702, 8736	NEMA 1	Red	<b>P1</b>	–
			Green	<b>P2</b>	–
			Amber	<b>P3</b>	–
			Clear	<b>P4</b>	–
Push-to-test pilot lights without operating interlock (2)	8502, 8536, 8702, 8736	NEMA 12	Red	<b>P21</b>	–
			Green	<b>P22</b>	–
			Amber	<b>P23</b>	–
			Clear	<b>P24</b>	–
			Yellow	<b>P25</b>	–
LED pilot lights	8502, 8536, 8702, 8736	NEMA 1	Red	<b>P51</b>	–
			Green	<b>P52</b>	–
			Yellow	<b>P55</b>	–
Special wiring	8502, 8536, 8702, 8736	NEMA 1	Red/"Off"	<b>P71</b>	–
			Green/"On"	<b>P72</b>	–
Selector switches	8502, 8536, 8702, 8736	NEMA 1,	"Hand-Off-Auto"	<b>C</b>	–
		NEMA 12			
	8702, 8736	NEMA 1,	"On-Off"	<b>C6</b>	–
		NEMA 12	"Forward-Off-Reverse"	<b>C14</b>	–
			"Forward-Reverse"	<b>C20</b>	–

### Variants – Transformers

Description	For use on		Functions	Suffix to the contactor or starter reference (1)	Weight kg (lb)
	Class	Enclosure type			
Separate control circuit	8502, 8536, 8702, 8736	NEMA 1, 12	Specify voltage and frequency	<b>S</b>	–
Fused control circuit without transformer	8502, 8536, 8702, 8736	NEMA 1, 12	One fuse	<b>F</b>	–
			Two fuses	<b>F4</b>	–
Control circuit transformers standard capacity (50/60 Hz) (3)	8502, 8536, 8702, 8736	NEMA 1, 12	Fuses: 2 (primary), 0 (secondary)	<b>F4T (4)</b>	–
			Fuses: 2 (primary), 1 (secondary)	<b>FF4T</b>	–
			Fuses: 1 (primary), 2 (secondary) (5)	<b>F1F10T</b>	–
			Fuses: 2 (primary), 2 (secondary)	<b>F4F10T</b>	–
Additional capacity (50/60 Hz) Two fuses in primary (3)	8502, 8536, 8702, 8736	NEMA 1, 12	100 VA additional capacity	<b>F4T11 (6)</b>	–
			200 VA additional capacity	<b>F4T12 (6)</b>	–
Additional capacity (50/60 Hz) Two fuses in primary and one fuse in secondary (3)	8502, 8536, 8702, 8736	NEMA 1, 12	100 VA additional capacity	<b>FF4T11</b>	–

(1) Example: **8536 SAG 12 V01 A P1 P2**. All suffixes are listed in alphanumeric order after the voltage code.

(2) Unless otherwise requested, the standard practice is to wire the red pilot light to indicate that the device is energized. No additional auxiliary contact is required. Also, standard practice is to wire the green pilot light to indicate that the device is de-energized. An additional normally closed auxiliary contact is required; please consult your regional sales office.

(3) Control circuit transformer selection table:

Primary-secondary	120-24 (7)	208-120	240-24 (7)	240-120	277-120	480-24 (7)	480-120	480-240	600-120
60 Hz	V89	V84	V82	V80	V85	V83	V81	V87	V86

Example: **8536 SAG 12 V81 F4T A P1 P2**.

(4) Not available with 24 V secondary on Size 3. Select appropriate transformer with secondary fuse protection. See transformer selection table.

(5) Single phase with one leg earthed, or earthed 3-phase applications only.

(6) Not available with 24 V secondary. Select appropriate transformer with secondary fuse protection. See transformer selection table for 24 V secondary restrictions.

(7) 24 V coils are not available on Sizes 4–7.

# Combination Starters

## Type S, NEMA-style starters with Disconnect switch or circuit breaker

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### General

Class 8538 and 8539 Type S combination starters combine the requirements of motor overload and short-circuit protection into one package. These starters are manufactured in accordance with NEMA standards and are UL listed. They are designed to operate up to ~ 600 V maximum, 50 to 60 Hz, and are available with solid-state overload relays.

Square D is one of the leaders in North America and Europe in providing starters that are verified by UL to comply with IEC 947-4-1 and Type 2 coordination. This means that the components of a motor branch circuit protective device (fuses and circuit-breaker), contactor and overload relay will be suitable for further use following a short-circuit fault allowing for replacement of components during normal scheduled maintenance. Class 8538 Type S combination starters, Sizes 0–5, with fusible disconnect switches, meet Type 2 performance criteria.

#### Disconnect-switch starters

Features:

- Interchangeable fuse clips, straight through wiring, solid earth/ground bar, space for a fused control transformer, provisions for adding disconnect switch electrical interlock, handle mechanism/door closing mechanism.

Switch-type combination starters are available with fusible or non-fusible disconnect switches in NEMA Sizes 0–6. The switch itself is constructed of a moulded, insulated material that delivers arc-quenching performance similar to that of high voltage switch-gear. The visible blade construction allows you to confirm the blade position at a glance. Many industries have standardized on this feature.

Sizes 0–2, non-fusible assemblies can be field converted to fusible designs easily and quickly. Factory-built fusible units accept the industry-standard Class H or R fuses. The various units have specific UL-listed short-circuit withstand ratings that range from 5000 to 100 000 A. Specific ratings are influenced by many components including the size of the disconnect switch and the type of fuses used with the switch.

#### Circuit-breaker starters

Features:

- Handle mechanism, door closing mechanism.

Options:

- Factory-installed auxiliary switch (provides remote indication of an open or tripped breaker), factory-supplied alarm switch (actuates bell alarms or warning light when breaker is tripped).

Square D provides both a thermal-magnetic circuit-breaker and a motor circuit protector in NEMA Sizes 0–7 for applications requiring a breaker-type combination starter. The most widely used over-current protection devices are thermal-magnetic circuit-breakers. Mag-Gard® motor circuit protectors are similar in construction, but provide only short-circuit protection. When Mag-Gard devices are used with motor starters, the adjustable instantaneous trip provides maximum motor protection based on specific amperage and application.

Type S combination starters using thermal-magnetic breakers carry a UL-listed short-circuit withstand rating from 5000 to 30 000 A. If a Mag-Gard Type GJL breaker is used, withstand ratings increase to 100 000 A. Specific ratings and listings may vary depending on the specific combination of components used in the assembly.



Fusible disconnect-switch combination starter



Circuit-breaker combination starter

### Characteristics

#### Environment

Class	8538							8539								
	0	1	2	3	4	5	6	0	1	2	3	4	5	6	7	
<b>Size</b>																
<b>Rated insulation voltage</b>																
Conforming to UL, CSA	V	600						600								
<b>Rated impulse withstand voltage</b>																
Class H or Class K fuses	kV	5			10		18		–							
Class R fuses	kV	100														
ITE circuit-breaker (FAL, KAL, LAL, MAL)	kV	–							10							
ITE circuit-breaker (GJL)	kV	–							65							
INST circuit-breaker (FAL, KAL, LAL, MAL)	kV	–							22 (1)		22			30 (3)		
INST circuit-breaker (GJL)	kV	–							100 (2)				–			
<b>Product certifications</b>	UL, CSA															

(1) 22 kV rating for 0–480 V. 10 kV rating for 600 V.

(2) 100 kV rating for 0–480 V. 10 kV rating for 600 V.

(3) 30 kV rating for 0–480 V. 22 kV rating for 600 V.

# Combination Starters

Type S, NEMA-style starters with Disconnect switch or circuit breaker



## Electrical characteristics

### UL-listed short-circuit ratings

Size	0	1	2	3	4	5	6	7
<b>Disconnect-switch starters</b>	<b>8538 S●G 1●/S●A</b>							
<b>NEMA fuse class</b>	Class H							
<b>Enclosure (1)</b>	Standard							
<b>Available Ampere RMS symmetrical</b>	<b>A</b>	5000			10 000		18 000	–
<b>Disconnect-switch starters</b>	<b>8538 S●G 3●/S●A</b>							
<b>NEMA fuse class</b>	Class R							
<b>Enclosure (1)</b>	Standard							
<b>Available Ampere RMS symmetrical</b>	<b>A</b>	100 000						–
<b>Circuit-breaker starters</b>	<b>8539 S●G 4●/S●A</b>							
<b>Enclosure (1)</b>	Standard							
<b>Available Ampere RMS symmetrical</b>	<b>A</b>	With GJL circuit-breaker: 100 000 (voltage 0–480 V) 10 000 (voltage 481–600 V)	With GJL circuit-breaker: 100 000 (voltage 0–480 V) 10 000 (voltage 481–600 V) 22 000 (8539 SGG 4● S8 and 8539 SDA ●● S8)	22 000				30 000 (voltage 0–480 V) 22 000 (voltage 481–600 V)
<b>Thermal-magnetic circuit-breaker starters</b>	<b>8538 S●G ●/S●A</b>							
<b>Enclosure (1)</b>	Standard							
<b>Available Ampere RMS symmetrical</b>	<b>A</b>	5000			10 000		18 000	30 000 (voltage 0–480 V) 22 000 (voltage 481–600 V)

### Mag-Gard trip range

Circuit-breaker	<b>GJL/FAL/KAL/LAL/MAL ●●●● M●●</b>							
<b>Suffix number/trip range</b>	<b>A</b>	M01 = 9–33			25M = 625–1250		35M = 1750–3500	
		M02 = 21–77			26M = 750–1500		36M = 2000–4000	
		M03 = 45–165			29M = 875–1750		40M = 2500–5000	
		M04 = 90–330			30M = 1000–2000		42M = 3000–6000	
		M05 = 150–550			31M = 1125–2250		44M = 3500–7000	
		M06 = 225–825			32M = 1250–2500			
		18M = 300–1100			33M = 1500–3000			

### Terminals

Size	0	1	2	3	4	5	6	7
<b>Type</b>	<b>Line terminals on disconnect switch</b>							
<b>Type of lug</b>	Box lug							
<b>Wire</b>	#14–#1/0 Cu/Al				#6–300 MCM Cu/Al	One #4–500 MCM Cu	–	–
<b>Switch</b>	#14–#1/0 Cu/Al				#14–#1/0 Cu/Al	One #4–500 MCM Cu	–	–
<b>size min.–max.</b>	#14–#4 Cu (2) #12–#4 Al or #14–#1/0 Cu #12–#1/0 Al #14–#1 Cu/#8–#1/0 Al (GJL Breaker)	#14–#1/0 Cu or #12–#1/0 Al #14–#1 Cu/#8–1/0 Al (GJL Breaker)	#14–#2 Cu #10–#2 Al (FA Brkr)	#4–300 MCM Cu/Al (KA Breaker) #14–#1 Cu/#8–#1/0 Al (GJL Breaker)	#14–#1/0 Cu #12–#1/0 Al (LA Brkr) #4–300 MCM Cu/Al (KA Breaker)	#4–300 MCM Cu/Al (KA Breaker) x1 #1–600 MCM or x2 #1–250 MCM Cu/Al (LA Breaker)	x1 #1–600 MCM or x2 #1–250 MCM Cu/Al (LA Breaker) or x3 #3/0–500 MCM Cu/Al (MA Breaker)	x3 #3/0–500 MCM Cu/Al
<b>Type</b>	<b>Power terminals on magnetic starter</b>							
<b>Type of lug</b>	Screw clamp terminal	Box lug					Parallel groove	
<b>Wire</b>	#14–#8 Cu	#14–#4 Cu	#14–#0 Cu	#8–250 MCM Cu	#4–500 MCM Cu	250–500 MCM Cu (3)	250–500 MCM Cu	250–500 MCM Cu
<b>Size min.–max.</b>								
<b>Per terminal</b>	1 or 2	1					1 or 2	1–4
<b>Type</b>	<b>Control terminals on magnetic starter</b>							
<b>Type of lug</b>	Screw clamp terminal							
<b>Wire</b>	#16–#12 Cu						#16–#12 Cu (4)	#16–#12 Cu
<b>Size min.–max.</b>								
<b>Per terminal</b>	2							

(1) Standard enclosure includes non-oversize NEMA 1 and 12.  
 (2) Use on FAL circuit-breakers rated 25 A or less.  
 (3) Order Class 9999 Type SAL-16 parts kit to convert power terminals to accept wire sizes 1/0–300 MCM.  
 (4) Terminal block range limited to #16–#14.

# Combination Starters

Type S, NEMA-style starters with  
Fusible disconnect switch, Class 8538  
with Class H fuse clips and solid-state overload relay

551043



8538 SBG 12 ●●●

2

### 3-pole fusible full-voltage starters, non-reversing (Class H fuse clips)

NEMA Size	Standard power ratings of 3-phase motors 50/60 Hz								Fuse clip size	External reset	Basic reference Add code indicating control circuit voltage (2), optional variants (3) and H code (4)	Weight
	Motor volts (1)											
	200 V (208 V)		230 V (240 V)		460 V (480 V)		575 V (600 V)					
	hp	kW	hp	kW	hp	kW	hp	kW	A			kg (lb)
<b>NEMA 1 general purpose enclosure</b>												
0	3	2.2	3	2.2	–	–	–	–	30	–	8538 SBG 12 (2) (3) (4)	17 (38)
	–	–	–	–	5	3.75	5	3.75	30	–	8538 SBG 13 (2) (3) (4)	17 (38)
1	5	3.75	5	3.75	–	–	–	–	30	–	8538 SCG 12 (2) (3) (4)	17 (38)
	–	–	–	–	10	7.5	10	7.5	30	–	8538 SCG 14 (2) (3) (4)	17 (38)
	7.5	5.5	7.5	5.5	–	–	–	–	60	–	8538 SCG 13 (2) (3) (4)	17 (38)
2	10	7.5	15	11	–	–	–	–	60	–	8538 SDG 12 (2) (3) (4)	25 (54)
	–	–	–	–	15	11	15	11	30	–	8538 SDG 16 (2) (3) (4)	25 (54)
	–	–	–	–	25	18.5	25	18.5	60	–	8538 SDG 14 (2) (3) (4)	25 (54)
3	20	15	25	18.5	–	–	–	–	100	–	8538 SEG 15 (2) (3) (4)	46 (102)
	–	–	–	–	50	37	50	37	100	–	8538 SEG 13 (2) (3) (4)	46 (102)
	25	18.5	30	22	–	–	–	–	200	–	8538 SEG 12 (2) (3) (4)	46 (102)
4	40	30	50	37	–	–	–	–	200	–	8538 SFG 15 (2) (3) (4)	74 (163)
	–	–	–	–	100	75	100	75	200	–	8538 SFG 13 (2) (3) (4)	74 (163)
5	75	55	100	75	–	–	–	–	400	–	8538 SGG 15 (2) (3) (4)	204 (450)
	–	–	–	–	200	150	200	150	400	–	8538 SGG 13 (2) (3) (4)	204 (450)
6	150	110	200	150	–	–	–	–	600	–	8538 SHG 13 (2) (3) (4)	240 (530)
	–	–	–	–	400	300	400	300	600	–	8538 SHG 12 (2) (3) (4)	240 (530)
<b>NEMA 12 dust-tight industrial-use enclosure</b>												
0	3	2.2	3	2.2	–	–	–	–	30	With	8538 SBA 22 (2) (3) (4)	18 (40)
										Without	8538 SBA 12 (2) (3) (4)	18 (40)
	–	–	–	–	5	3.75	5	3.75	30	With	8538 SBA 23 (2) (3) (4)	18 (40)
										Without	8538 SBA 13 (2) (3) (4)	18 (40)
1	5	3.75	5	3.75	–	–	–	–	30	With	8538 SCA 22 (2) (3) (4)	18 (40)
										Without	8538 SCA 12 (2) (3) (4)	18 (40)
	–	–	–	–	10	7.5	10	7.5	30	With	8538 SCA 24 (2) (3) (4)	18 (40)
										Without	8538 SCA 14 (2) (3) (4)	18 (40)
	7.5	5.5	7.5	5.5	–	–	–	–	60	With	8538 SCA 23 (2) (3) (4)	18 (40)
										Without	8538 SCA 13 (2) (3) (4)	18 (40)
2	10	7.5	15	11	–	–	–	–	60	With	8538 SDA 22 (2) (3) (4)	25 (55)
										Without	8538 SDA 12 (2) (3) (4)	25 (55)
	–	–	–	–	15	11	15	11	30	With	8538 SDA 26 (2) (3) (4)	25 (55)
										Without	8538 SDA 16 (2) (3) (4)	25 (55)
	–	–	–	–	25	18.5	25	18.5	60	With	8538 SDA 24 (2) (3) (4)	25 (55)
										Without	8538 SDA 14 (2) (3) (4)	25 (55)
3	20	15	25	18.5	–	–	–	–	100	With	8538 SEA 25 (2) (3) (4)	50 (111)
										Without	8538 SEA 15 (2) (3) (4)	50 (111)
	–	–	–	–	50	37	50	37	100	With	8538 SEA 23 (2) (3) (4)	50 (111)
										Without	8538 SEA 13 (2) (3) (4)	50 (111)
	25	18.5	30	22	–	–	–	–	200	With	8538 SEA 22 (2) (3) (4)	50 (111)
										Without	8538 SEA 12 (2) (3) (4)	50 (111)
4	40	30	50	37	–	–	–	–	200	With	8538 SFA 25 (2) (3) (4)	77 (170)
										Without	8538 SFA 15 (2) (3) (4)	77 (170)
	–	–	–	–	100	75	100	75	200	With	8538 SFA 23 (2) (3) (4)	77 (170)
										Without	8538 SFA 13 (2) (3) (4)	77 (170)
5	75	55	100	75	–	–	–	–	400	With	8538 SGA 25 (2) (3) (4)	207 (457)
										Without	8538 SGA 15 (2) (3) (4)	207 (457)
	–	–	–	–	200	150	200	150	400	With	8538 SGA 23 (2) (3) (4)	207 (457)
										Without	8538 SGA 13 (2) (3) (4)	207 (457)
6	150	110	200	150	–	–	–	–	600	With	8538 SHA 23 (2) (3) (4)	250 (552)
										Without	8538 SHA 13 (2) (3) (4)	250 (552)
	–	–	–	–	400	300	400	300	600	With	8538 SHA 22 (2) (3) (4)	250 (552)
										Without	8538 SHA 12 (2) (3) (4)	250 (552)

(1) (2) (3) (4) See page 2/8.