Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноврок (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Сариго (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93

Единый адрес: ath@nt-rt.ru | http://albright.nt-rt.ru

The DC66P is a compact contactor following the established design of our mono block contactors, configured specifically for motor reversing. Suitable for Direct Current loads and compatible with modern electronic control systems, the DC66P is sealed to IP66 and is ideal for use in applications such as battery powered winches, vehicle mounted cranes and small electric vehicles. Devised for both interrupted and uninterrupted loads, the DC66P is suitable for switching Resistive, Capacitive and Inductive loads.

30% Duty 30%	0A at 60V D.C. esistive Load: 0A at 48V D.C.
Intermittent Current Rating:  100% Duty Cycle) 10	125A 115A 105A 95A ms Time Constant: 0A at 60V D.C. esistive Load: 0A at 48V D.C. e): 48V D.C. <40mV >3 x 10 <sup>8</sup>
in accordance with UL583*)  CC66P  Rated Fault Current Breaking Capacity (Inn) R in accordance with UL508*)  CC66P  Maximum Recommended Contact Voltages (UC)  CC66P  Typical Voltage Drop per pole across New Contacts at 80A  Mechanical M.T.B.F  Coil Voltage Available (Us)  Froil Power Dissipation:  Highly Intermittent Rated Types  Continuously Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types  Max 25% Duty Cycle)  Intermittently Rated types  Max 70% Duty Cycle)  Continuously Rated Types  Continuously Rated Types  Max 90% Duty Cycle)  Continuously Rated Types  Toop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millist Normally Closed of Vormally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	125A 115A 105A 95A ms Time Constant: 0A at 60V D.C. esistive Load: 0A at 48V D.C. e): 48V D.C. <40mV >3 x 10 <sup>8</sup>
20% Duty 20%	115A 105A 95A ms Time Constant: 0A at 60V D.C. esistive Load: 0A at 48V D.C. e): 48V D.C. <40mV >3 x 10 <sup>8</sup>
10% Duty 10% Duty 10% Duty 10% Duty 10% Duty 10% Continuously Rated Types 10066P 10066P 11006 Duty 10066P 1006P 1	105A 95A ns Time Constant:  0A at 60V D.C. esistive Load:  0A at 48V D.C. e):  48V D.C. <40mV >3 x 106
Rated Fault Current Breaking Capacity (*Ion) 50 in accordance with UL583*)  DC66P  Rated Fault Current Breaking Capacity (*Ion) Rin accordance with UL508*)  DC66P  Asximum Recommended Contact Voltages (UL5066P)  Pypical Voltage Drop per pole across New Contacts at 80A  Alechanical M.T.B.F  Coil Voltage Available (Us)  From Coil Power Dissipation:  dighly Intermittent Rated Types  Intermittently Rated types  Prolonged Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide dighly Intermittent Rated types  Max 70% Duty Cycle)  Prolonged Operation  Max 90% Duty Cycle)  Continuously Rated Types  Continuously Rated Types  Max 70% Duty Cycle)  Propo-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open)  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millist Normally Open)  Normally Open to Normally Closed  Typical Contact Bounce Period	95A ns Time Constant:  0A at 60V D.C. esistive Load:  0A at 48V D.C. e):  48V D.C.  <40mV  >3 x 10 <sup>6</sup>
Rated Fault Current Breaking Capacity (Icn) 51 in accordance with UL583*)  DC66P  Rated Fault Current Breaking Capacity (Icn) Rin accordance with UL508*)  DC66P  Maximum Recommended Contact Voltages (UD666P  Maximum Recommended Contact Voltages (UD666P  Typical Voltage Drop per pole across New Contacts at 80A  Mechanical M.T.B.F  Coil Voltage Available (Us)  Froil Power Dissipation:  Highly Intermittent Rated Types  Prolonged Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types  Max 70% Duty Cycle)  Prolonged Operation  Max 90% Duty Cycle)  Continuously Rated Types  Continuously Rated Types  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millist Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	ns Time Constant:  0A at 60V D.C. esistive Load:  0A at 48V D.C. e):  48V D.C. <40mV >3 x 10 <sup>8</sup>
Rated Fault Current Breaking Capacity (Icn) 51 in accordance with UL583*)  DC66P  Rated Fault Current Breaking Capacity (Icn) Rin accordance with UL508*)  DC66P  Maximum Recommended Contact Voltages (UD666P  Maximum Recommended Contact Voltages (UD666P  Typical Voltage Drop per pole across New Contacts at 80A  Mechanical M.T.B.F  Coil Voltage Available (Us)  Froil Power Dissipation:  Highly Intermittent Rated Types  Prolonged Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types  Max 70% Duty Cycle)  Prolonged Operation  Max 90% Duty Cycle)  Continuously Rated Types  Continuously Rated Types  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millist Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	0A at 60V D.C. esistive Load:  0A at 48V D.C. e):  48V D.C. <40mV >3 x 10 <sup>8</sup>
Rated Fault Current Breaking Capacity (Icn) R In accordance with UL508*)  DC66P  Maximum Recommended Contact Voltages (UDC66P  Typical Voltage Drop per pole across New Contacts at 80A  Mechanical M.T.B.F  Coil Voltage Available (Us)  Froil Coil Power Dissipation:  -dighly Intermittent Rated Types Intermittently Rated types  Perolonged Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  -dighly Intermittent Rated types  Maximum Pull-In Voltage (Coil at 20° C) Guide  -dighly Intermittent Rated types  Max 25% Duty Cycle)  Perolonged Operation  Max 90% Duty Cycle)  Continuously Rated Types  100% Duty Cycle)  Drop-Out Voltage Range  Typical Drop-Out Time (N/O Contacts to Open)  Without Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed  Typical Contact Bounce Period	esistive Load:  0A at 48V D.C.  e):  48V D.C.  <40mV  >3 x 10 <sup>8</sup>
in accordance with UL508*)  DC66P  Maximum Recommended Contact Voltages (UDC66P  Typical Voltage Drop per pole across New Contacts at 80A  Mechanical M.T.B.F  Coil Voltage Available (Us)  Froil Coil Power Dissipation:  Highly Intermittent Rated Types  Prolonged Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types  Max 25% Duty Cycle)  Intermittently Rated types  Max 70% Duty Cycle)  Prolonged Operation  Max 90% Duty Cycle)  Continuously Rated Types  100% Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open)  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed of Typical Contact Bounce Period  Typical Contact Bounce Period	0A at 48V D.C. e): 48V D.C. <40mV >3 x 10 <sup>8</sup>
Maximum Recommended Contact Voltages (UDC66P  Typical Voltage Drop per pole across New Contacts at 80A  Mechanical M.T.B.F  Coil Voltage Available (Us)  Froil Coil Power Dissipation:  Highly Intermittent Rated Types Intermittently Rated types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types  Max 25% Duty Cycle)  Prolonged Operation  Max 90% Duty Cycle)  Continuously Rated Types  (Continuously Rated Types  (Look Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open  With Diode Suppression  With Diode and Resistor  (Subject to resistance value)  Typical Main Contact Changeover Time (millise  Normally Closed to Normally Open  Normally Open to Normally Closed	e): 48V D.C. <40mV >3 x 10 <sup>6</sup>
DC66P Typical Voltage Drop per pole across New Contacts at 80A Mechanical M.T.B.F Coil Voltage Available (Us) Troi Coil Power Dissipation: -lighly Intermittent Rated Types Intermittently Rated types Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guide -lighly Intermittent Rated types Max 25% Duty Cycle) Intermittently Rated types Max 25% Duty Cycle) Prolonged Operation Max 90% Duty Cycle) Continuously Rated Types 100% Duty Cycle) Drop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open) With Diode and Resistor Subject to resistance value) Typical Main Contact Changeover Time (millise Normally Closed Typical Contact Bounce Period	48V D.C. <40mV >3 x 10 <sup>6</sup>
Typical Voltage Drop per pole across New Contacts at 80A  Mechanical M.T.B.F  Coil Voltage Available (Us)  Froi  Toil Power Dissipation:  Highly Intermittent Rated Types  Prolonged Rated Types  Continuously Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types  Max 25% Duty Cycle)  Intermittently Rated types  Max 70% Duty Cycle)  Prolonged Operation  Max 90% Duty Cycle)  Continuously Rated Types  100% Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise  Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	<40mV >3 x 10 <sup>6</sup>
Across New Contacts at 80A Mechanical M.T.B.F Coil Voltage Available (Us) Coil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated types Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guide Highly Intermittent Rated types Maximum Pull-In Voltage (Coil at 20° C) Guide Highly Intermittent Rated types Max 25% Duty Cycle) Prolonged Operation Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Drop-Out Voltage Range Typical Pull-In Time Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open With Diode and Resistor (Subject to resistance value) Typical Main Contact Changeover Time (millise Normally Closed to Normally Open Normally Open to Normally Closed Typical Contact Bounce Period	>3 x 10 <sup>6</sup>
Coil Voltage Available (Us)  Froi Coil Power Dissipation:	•
Coil Power Dissipation: -lighly Intermittent Rated Types Intermittently Rated types Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guide -lighly Intermittent Rated types Max 25% Duty Cycle) -lighly Intermittent Rated types Max 25% Duty Cycle) -lighly Intermittent Rated types Max 25% Duty Cycle) -low Duty Cycle -low Duty Cycle -low Duty Cycle -low Drop-Out Voltage Range -low Drop-Out Voltage Range -low Drop-Out Time (N/O Contacts to Open -low Drop-Out Suppression -low Drop-Out Time (N/O Contacts to Open -low Drop-Out Voltage Range -low Drop-Out Suppression -low Drop-Out Suppression -low Drop-Out Suppression -low Drop-Out Main Contact Changeover Time (millise -low Drop-Out Main Contact Changeover Time (millise -low Drop-Out Closed to Normally Open -low Drop-Out Closed -low Drop-O	n 6 to 130V D.C.
Highly Intermittent Rated Types Intermittently Rated types Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guide Highly Intermittent Rated types Max 25% Duty Cycle) Intermittently Rated types Max 70% Duty Cycle) Prolonged Operation Max 90% Duty Cycle) Continuously Rated Types 100% Duty Cycle) Drop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open Without Suppression With Diode and Resistor Subject to resistance value) Typical Main Contact Changeover Time (millise Normally Closed to Normally Open Normally Open to Normally Closed Typical Contact Bounce Period	
Intermittently Rated types  Prolonged Rated Types  Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types Max 25% Duty Cycle)  Intermittently Rated types Max 70% Duty Cycle)  Prolonged Operation Max 90% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Drop-Out Voltage Range  Fypical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open  Without Suppression  With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise  Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	
Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guide Highly Intermittent Rated types Max 25% Duty Cycle) Intermittently Rated types Max 70% Duty Cycle) Prolonged Operation Max 90% Duty Cycle) Continuously Rated Types 100% Duty Cycle) Drop-Out Voltage Range Fypical Pull-In Time Fypical Drop-Out Time (N/O Contacts to Open) Without Suppression With Diode Suppression With Diode and Resistor Subject to resistance value) Fypical Main Contact Changeover Time (millise Normally Closed to Normally Open Normally Open to Normally Closed Fypical Contact Bounce Period	14 - 21 Watts
Continuously Rated Types  Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types Max 25% Duty Cycle)  Prolonged Operation Max 90% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Crop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open  With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	10 - 14 Watts
Maximum Pull-In Voltage (Coil at 20° C) Guide  Highly Intermittent Rated types Max 25% Duty Cycle)  Intermittently Rated types Max 70% Duty Cycle)  Prolonged Operation Max 90% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open Without Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	7 - 10 Watts
lighly Intermittent Rated types Max 25% Duty Cycle)  Intermittently Rated types Max 70% Duty Cycle)  Prolonged Operation Max 90% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Orop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open)  Without Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	5 - 7 Watts
Max 25% Duty Cycle)  Intermittently Rated types Max 70% Duty Cycle)  Prolonged Operation Max 90% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open Without Suppression  With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	ine:
Max 70% Duty Cycle)  Prolonged Operation Max 90% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open)  With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	60% U <sub>S</sub>
Max 90% Duty Cycle)  Continuously Rated Types 100% Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open)  Without Suppression  With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise  Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	60% U <sub>S</sub>
Continuously Rated Types (100% Duty Cycle)  Drop-Out Voltage Range  Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open Mithout Suppression  With Diode Suppression  With Diode and Resistor (Subject to resistance value)  Typical Main Contact Changeover Time (millist Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	60% U <sub>S</sub>
Typical Pull-In Time  Typical Drop-Out Time (N/O Contacts to Open Without Suppression  With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	66% U <sub>S</sub>
Without Suppression With Diode Suppression With Diode and Resistor Subject to resistance value) Typical Main Contact Changeover Time (millise Normally Closed to Normally Open Normally Open to Normally Closed Typical Contact Bounce Period	10 - 25% U <sub>S</sub>
Without Suppression  With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millist  Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	15ms
With Diode Suppression  With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise)  Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	t
With Diode and Resistor  Subject to resistance value)  Typical Main Contact Changeover Time (millise  Normally Closed to Normally Open  Normally Open to Normally Closed  Typical Contact Bounce Period	6ms
(Subject to resistance value)  Typical Main Contact Changeover Time (millise Normally Closed to Normally Open Normally Open to Normally Closed  Typical Contact Bounce Period	35ms
Normally Closed to Normally Open Normally Open to Normally Closed Typical Contact Bounce Period	8 - 20ms
Normally Open to Normally Closed  Typical Contact Bounce Period	econds):
Typical Contact Bounce Period	6ms
	6ms
	3ms
Operating Ambient Temperature	10°C to + 60°C
Guideline Contactor Weight:	
DC66P	460 gms
Advised Connection Sizes for Maximum Co	
Copper busbar 52	ntinuous Current
Cable Rated si	ntinuous Current mm² [0.08 inch²]

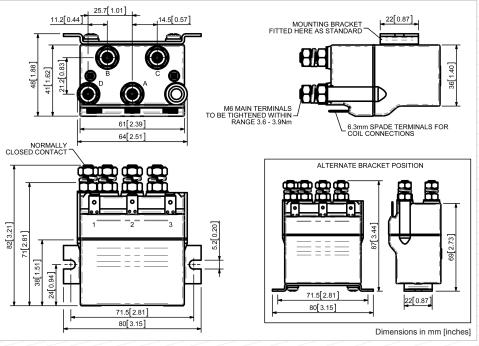
\* Please check our web site for product UL status

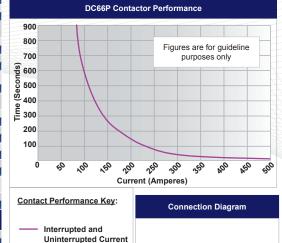
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

The main contact circuit has a built in fail safe, so that if both coils are energised simultaneously the contact arrangement is open circuit. The DC66P has double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The DC66P has M6 main stud terminals and coil connections are by means of 6.3mm spades.



DC66P





Connection Diagram				
-VE -VE 1 - 3+VE				

General	Suffix				
Auxiliary Contacts	Х				
Auxiliary Contacts - V3	X				
Magnetic Blowouts†	X				
Magnetic Blowouts - High Powered†	X				
Armature Cap	X				
Mounting Brackets	•				
Magnetic Latching <sup>†</sup> (Not fail safe)	X				
Closed Contact Housing	•				
Environmentally Protected IP66	•	Р			
EE Type (Steel Shroud)	X				
Contacts					
Large Tips	X				
Textured Tips	X				
Silver Plating	X				
Coil					
AC Rectifier Board (Fitted)	X				
Coil Suppression <sup>†</sup>	0				
Flying Leads	X				
Manual Override Operation	X				
M4 Stud Terminals	0				
M5 Terminal Board	X				
Vacuum Impregnation	X				
<b>Key:</b> Optional ○ Standard • Not Available X					
† Connections become polarity sensitive					

DC66P Available Options