

Annex to the Getting Started with Altivar Process ATV900



Short-Circuit Current Ratings (SCCR) and Branch Circuit Protection

The combinations in the table below have been tested per UL61800-5-1. These ratings allow proper coordination of short circuit protection. All the ratings of the product have a 100 kA interrupt rating at the output as per UL61800-5-1 testing.

Altivar Process drives are provided with integral overload and over-speed monitoring and can provide motor overload protection at 100% of the full load motor current. The motor thermal current [Motor Th Current] , L H must be set to the rated current indicated on the motor nameplate. For more information refer to the ATV900 programming manual (NHA80757).

The opening of the branch circuit protective device may be an indication that a fault current has been interrupted.

⚡ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Current-carrying parts and other components of the controller should be examined and replaced if damaged.
 - If burnout of the current element of an overload relay occurs, the complete overload relay must be replaced.
- Failure to follow these instructions will result in death or serious injury.**

75°C (167°F) copper conductor with the AWG wire size shown on nameplate for all sizes.

Suitable for use on a circuit capable of delivering not more than X rms symmetrical kiloAmperes, Y Volts maximum, when protected by Z1 with a maximum rating of Z2 .

Altivar Process Short Circuit Current Ratings (a) (b) With Enclosure				Minimum Enclosure Volume		With Circuit Breaker		With GV●P				Fuses		Line Reactor Min Value (o)	
Input Voltage 50/60 Hz (Y)	Power Ratings in Normal Duty		Catalog Number (may be followed by characters)			PowerPact (c) Catalog Number (Z1, Z2)	SCCR (X)	GV●P (Z1, Z2)	GV●P		SCCR (X)	600 V Class J (d) (Z1, Z2)	SCCR (X)		
								Type E (e)	Voltage Rating	Power (i)					
	(kW)	(HP)		(L)	(in ³)		(kA)	–	(V)	(HP)	(kA)	(A)	(kA)	(mH)	(A)
240 Vac Three- phase	0.75	1	ATV930U07M3	47	2880	H●L36015	100	GV2P08	240	0.75	100	6	100	–	–
	1.5	2	ATV930U15M3	47	2880	H●L36015	100	GV2P10	240	1.5	100	10	100	–	–
	2.2	3	ATV930U22M3	47	2880	H●L36025	100	GV2P14	240	3	100	15	100	–	–
	3	–	ATV930U30M3	47	2880	H●L36030	100	GV2P14	240	3	100	20	100	–	–
	4	5	ATV930U40M3	47	2880	H●L36030	100	GV2P20	240	5	100	25	100	–	–
	5.5	7.5	ATV930U55M3	47	2880	H●L36050	100	GV2P21	240	7.5	100	35	100	–	–
	7.5	10	ATV930U75M3	56	3390	H●L36060	100	GV2P32	240	10	100	45	100	–	–
	11	15	ATV930D11M3	56	3390	H●L36070	100	GV3P40	240	10	100	60	100	–	–
	15	20	ATV930D15M3	115	7010	H●L36090	100	GV3P50	240	15	100	80	100	–	–
	18.5	25	ATV930D18M3	115	7010	H●L36110	100	GV3P65	240	20	100	100	100	–	–
	22	30	ATV930D22M3	115	7010	H●L36125	100	GV4PB80S	240	20	100	100	100	–	–
	30	40	ATV930D30M3 ATV930D30M3C	132	12039	H●L36175	100	GV4PB115S	240	30	100	175	100	–	–
	37	50	ATV930D37M3 ATV930D37M3C	132	12039	J●L36225	100	–	–	–	–	200	100	–	–
	45	60	ATV930D45M3 ATV930D45M3C	132	12039	J●L36250	100	–	–	–	–	200	100	–	–
	55	75	ATV930D55M3C	478	29160	L●L36400	100	–	–	–	–	350	100	–	–
	75	100	ATV930D75M3C	478	29160	L●L36600	100	–	–	–	–	450	100	–	–
480 Vac Three- phase	0.75	1	ATV930U07N4 ATV950U07N4	47	2880	H●L36015	100	GV2P07	480Y/277	1	65	3	100	–	–
	1.5	2	ATV930U15N4 ATV950U15N4	47	2880	H●L36015	100	GV2P08	480Y/277	2	65	6	100	–	–
	2.2	3	ATV930U22N4 ATV950U22N4	47	2880	H●L36015	100	GV2P08	480Y/277	2	65	10	100	–	–
	3	–	ATV930U30N4 ATV950U30N4	47	2880	H●L36015	100	GV2P10	480Y/277	3	65	10	100	–	–
	4	5	ATV930U40N4 ATV950U40N4	47	2880	H●L36015	100	GV2P10	480Y/277	3	65	15	100	–	–
	5.5	7.5	ATV930U55N4 ATV950U55N4	47	2880	H●L36025	100	GV2P14	480Y/277	5	65	15	100	–	–
	7.5	10	ATV930U75N4 ATV950U75N4	47	2880	H●L36030	100	GV3P13 (f)	480Y/277	7.5	65	20	100	–	–
	11	15	ATV930D11N4 ATV950D11N4	47	2880	H●L36050	100	GV3P18 (f)	480Y/277	10	65	30	100	–	–
	15	20	ATV930D15N4 ATV950D15N4	56	3390	H●L36060	100	GV3P25 (f)	480Y/277	15	65	40	100	–	–

Altivar Process Short Circuit Current Ratings (a) (b) With Enclosure				Minimum Enclosure Volume		With Circuit Breaker		With GV●P				Fuses		Line Reactor Min Value (o)	
Input Voltage 50/60 Hz (Y)	Power Ratings in Normal Duty		Catalog Number (c) Catalog Number (Z1, Z2)			SCCR (X)	GV●P (Z1, Z2)		SCCR (X)	600 V Class J (d) (Z1, Z2)	SCCR (X)				
	(kW)	(HP)					(may be followed by characters)					Type E (e)	Voltage Rating		
				(L)	(in ³)		(kA)	–	(V)	(HP)	(kA)	(A)	(kA)	(mH)	(A)
480 Vac Three-phase	18.5	25	ATV930D18N4 ATV950D18N4	56	3390	H●L36070	100	GV3P32	480Y/277	20	65	50	100	–	–
	22	30	ATV930D22N4 ATV950D22N4	56	3390	H●L36080	100	GV3P40	480Y/277	25	65	60	100	–	–
	30	40	ATV930D30N4 ATV950D30N4	115	7010	H●L36100	100	GV3P50	480Y/277	30	65	80	100	–	–
	37	50	ATV930D37N4 ATV950D37N4	115	7010	H●L36125	100	GV3P65	480Y/277	40	65	90	100	–	–
	45	60	ATV930D45N4 ATV950D45N4	115	7010	H●L36150	100	GV4PB80S	480Y/277	40	65	100	100	–	–
	55	75	ATV930D55N4 ATV930D55N4C ATV950D55N4	132	12039	J●L36175	100	GV4PB115S	480Y/277	60	65	150	100	–	–
	75	100	ATV930D75N4 ATV930D75N4C ATV950D75N4	132	12039	J●L36200	100	GV4PB115S	480Y/277	60	65	200	100	–	–
	90	125	ATV930D90N4 ATV930D90N4C ATV950D90N4	132	12039	J●L36250	100	GV5P150H	480Y/277	100	65	200	100	–	–
	110	150	ATV930C11N4C	478	29160	L●L36400	100	GV5P220H	480Y/277	150	65	300	100	–	–
	132	200	ATV930C13N4C	478	29160	L●L36600	100	GV5P220H	480Y/277	150	65	400	100	–	–
	160	250	ATV930C16N4C	478	29160	L●L36600	100	GV6P320H	480Y/277	250	65	500	100	–	–
	220	350	ATV930C22N4 ATV930C22N4C ATV930C22N4MN ATV930C22N4CMN	878	53550	–	–	–	–	–	–	500 (g)	100	0.05	400
	250	400	ATV930C25N4C ATV930C25N4CMN	878	53550	–	–	–	–	–	–	600 (h)	100	0.05	440
	315	500	ATV930C31N4C ATV930C31N4CMN	878	53550	–	–	–	–	–	–	600 (h)	100	0.04	560
600 Vac Three-phase	2.2	3	ATV930U22S6X	47	2880	H●L36015	100	GV3P13	600Y/347	10	25	6	100	10	3
	4	5	ATV930U40S6X	47	2880	H●L36015	100	GV3P13	600Y/347	10	25	10	100	4	6
	5.5	7.5	ATV930U55S6X	47	2880	H●L36020	100	GV3P13	600Y/347	10	25	15	100	4	7
	7.5	10	ATV930U75S6X	47	2880	H●L36025	100	GV3P13	600Y/347	10	25	15	100	2	10
	11	15	ATV930D11S6X	47	2880	H●L36040	100	GV3P18	600Y/347	15	25	25	100	1.1	16
	15	20	ATV930D15S6X	47	2880	H●L36050	100	GV3P25	600Y/347	20	25	30	100	1.1	20
	18.5	25	ATV930D18S6	142	8640	H●L36080	100	GV3P25	600Y/347	20	25	35	100	–	–
	22	30	ATV930D22S6	142	8640	H●L36100	100	GV3P32	600Y/347	25	25	40	100	–	–
	30	40	ATV930D30S6	283	17280	H●L36125	100	GV3P50	600Y/347	40	25	60	100	–	–
	37	50	ATV930D37S6	283	17280	H●L36150	100	GV3P50	600Y/347	40	25	70	100	–	–
	45	60	ATV930D45S6	283	17280	H●L36150	100	GV3P65	600Y/347	50	25	80	100	–	–
	55	75	ATV930D55S6	283	17280	J●L36200	100	GV4PB80S	600Y/347	50	25	110	100	–	–
	75	100	ATV930D75S6	283	17280	J●L36250	100	GV4PB115S	600Y/347	75	25	150	100	–	–
	600 Vac Three-phase	1.5	2	ATV930U22Y6	142	8640	H●L36015	100	GV3P13	600Y/347	10	25	6	100	–
2.2		3	ATV930U30Y6	142	8640	H●L36015	100	GV3P13	600Y/347	10	25	10	100	–	–
3		–	ATV930U40Y6	142	8640	H●L36020	100	GV3P13	600Y/347	10	25	15	100	–	–
4		5	ATV930U55Y6	142	8640	H●L36020	100	GV3P13	600Y/347	10	25	15	100	–	–
5.5		7.5	ATV930U75Y6	142	8640	H●L36025	100	GV3P13	600Y/347	10	25	15	100	–	–
7.5		10	ATV930D11Y6	142	8640	H●L36040	100	GV3P13	600Y/347	10	25	20	100	–	–
11		15	ATV930D15Y6	142	8640	H●L36050	100	GV3P18	600Y/347	15	25	25	100	–	–
15		20	ATV930D18Y6	142	8640	H●L36060	100	GV3P25	600Y/347	20	25	30	100	–	–
18.5		25	ATV930D22Y6	142	8640	H●L36080	100	GV3P25	600Y/347	20	25	35	100	–	–
22		30	ATV930D30Y6	142	8640	H●L36100	100	GV3P32	600Y/347	25	25	40	100	–	–
30		40	ATV930D37Y6	283	17280	H●L36125	100	GV3P50	600Y/347	40	25	60	100	–	–
37		50	ATV930D45Y6	283	17280	H●L36150	100	GV3P50	600Y/347	40	25	70	100	–	–
45		60	ATV930D55Y6	283	17280	H●L36150	100	GV3P65	600Y/347	50	25	80	100	–	–
55		75	ATV930D75Y6	283	17280	J●L36200	100	GV4PB80S	600Y/347	50	25	110	100	–	–
75	100	ATV930D90Y6	283	17280	J●L36250	100	GV4PB115S	600Y/347	75	25	150	100	–	–	

Altivar Process Short Circuit Current Ratings (a) (b) With Conduit Box (UL Type 1)				Fuses		Line Reactor Min Value (o)	
Input Voltage 50/60 Hz (Y)	Power Ratings in Normal Duty		Catalog Number (may be followed by characters)	600 V Class J (d) (Z1, Z2)	SCCR (X)		
				(A)	(kA)	(mH)	(A)
240 Vac Three-phase	0.75	1	ATV930U07M3	6	100	–	–
	1.5	2	ATV930U15M3	10	100	–	–
	2.2	3	ATV930U22M3	15	100	–	–
	3	–	ATV930U30M3	20	100	–	–
	4	5	ATV930U40M3	25	100	–	–
	5.5	7.5	ATV930U55M3	35	100	–	–
	7.5	10	ATV930U75M3	45	100	–	–
	11	15	ATV930D11M3	60	100	–	–
	15	20	ATV930D15M3	80	100	–	–
	18.5	25	ATV930D18M3	100	100	–	–
	22	30	ATV930D22M3	100	100	–	–
	30	40	ATV930D30M3 ATV930D30M3C	175	100	–	–
	37	50	ATV930D37M3 ATV930D37M3C	200	100	–	–
	45	60	ATV930D45M3 ATV930D45M3C	200	100	–	–
	55	75	ATV930D55M3C (j)	300	25	–	–
	75	100	ATV930D75M3C (j)	350	25	–	–
480 Vac Three-phase	0.75	1	ATV930U07N4 ATV950U07N4	3	100	–	–
	1.5	2	ATV930U15N4 ATV950U15N4	6	100	–	–
	2.2	3	ATV930U22N4 ATV950U22N4	10	100	–	–
	3	–	ATV930U30N4 ATV950U30N4	10	100	–	–
	4	5	ATV930U40N4 ATV950U40N4	15	100	–	–
	5.5	7.5	ATV930U55N4 ATV950U55N4	15	100	–	–
	7.5	10	ATV930U75N4 ATV950U75N4	20	100	–	–
	11	15	ATV930D11N4 ATV950D11N4	30	100	–	–
	15	20	ATV930D15N4 ATV950D15N4	40	100	–	–
	18.5	25	ATV930D18N4 ATV950D18N4	50	100	–	–
	22	30	ATV930D22N4 ATV950D22N4	60	100	–	–
	30	40	ATV930D30N4 ATV950D30N4	80	100	–	–
	37	50	ATV930D37N4 ATV950D37N4	90	100	–	–
	45	60	ATV930D45N4 ATV950D45N4	100	100	–	–
	55	75	ATV930D55N4 ATV930D55N4C ATV950D55N4	150	100	–	–
	75	100	ATV930D75N4 ATV930D75N4C ATV950D75N4	200	100	–	–
	90	125	ATV930D90N4 ATV930D90N4C ATV950D90N4	200	100	–	–
	110	150	ATV930C11N4C (j)	250	25	–	–
	132	200	ATV930C13N4C (j)	300	25	–	–
	160	250	ATV930C16N4C (j)	350	25	–	–
	220	350	ATV930C22N4 (k) ATV930C22N4C (k)	500	18	–	–
			ATV930C22N4MN (k) ATV930C22N4CMN (k)	500	18	0.05	400
	250	400	ATV930C25N4C (l)	600	18	–	–
			ATV930C25N4CMN (l)	600	18	0.05	440
	315	500	ATV930C31N4C (l)	600	30	–	–
			ATV930C31N4CMN (l)	600	30	0.04	560

Altivar Process Short Circuit Current Ratings (a) (b) With Conduit Box (UL Type 1)				Fuses		Line Reactor Min Value (o)	
Input Voltage 50/60 Hz (Y)	Power Ratings in Normal Duty		Catalog Number (may be followed by characters)	600 V Class J (d) (Z1, Z2)	SCCR (X)		
	(kW)	(HP)		(A)	(kA)	(mH)	(A)
600 Vac Three-phase	2.2	3	ATV930U22S6X	6	100	10	3
	4	5	ATV930U40S6X	10	100	4	6
	5.5	7.5	ATV930U55S6X	15	100	4	7
	7.5	10	ATV930U75S6X	15	100	2	10
	11	15	ATV930D11S6X	25	100	1.1	16
	15	20	ATV930D15S6X	30	100	1.1	20
	18.5	25	ATV930D18S6	35	100	–	–
	22	30	ATV930D22S6	40	100	–	–
	30	40	ATV930D30S6	60	100	–	–
	37	50	ATV930D37S6	70	100	–	–
	45	60	ATV930D45S6	80	100	–	–
	55	75	ATV930D55S6	110	100	–	–
	75	100	ATV930D75S6	150	100	–	–
600 Vac Three-phase	1.5	2	ATV930U22Y6 (m)	6	100	–	–
	2.2	3	ATV930U30Y6 (m)	10	100	–	–
	3	–	ATV930U40Y6 (m)	15	100	–	–
	4	5	ATV930U55Y6 (m)	15	100	–	–
	5.5	7.5	ATV930U75Y6 (m)	15	100	–	–
	7.5	10	ATV930D11Y6 (m)	20	100	–	–
	11	15	ATV930D15Y6 (m)	25	100	–	–
	15	20	ATV930D18Y6 (m)	30	100	–	–
	18.5	25	ATV930D22Y6 (m)	35	100	–	–
	22	30	ATV930D30Y6 (m)	40	100	–	–
	30	40	ATV930D37Y6 (n)	60	100	–	–
	37	50	ATV930D45Y6 (n)	70	100	–	–
	45	60	ATV930D55Y6 (n)	80	100	–	–
	55	75	ATV930D75Y6 (n)	110	100	–	–
	75	100	ATV930D90Y6 (n)	150	100	–	–

(a) The amp rating of the short circuit protection devices in the table are maximum values. Smaller amp sizes may be used; particularly for Heavy Duty ratings. Branch circuit protection must be provided in accordance with the National Electrical Code and any additional local codes.

(b) The maximum prospective short circuit current value that cannot be exceeded is 100 kA. Electrical distribution systems with a higher prospective short circuit will cause higher input currents in the front end of the drive.

(c) Circuit breaker part number designations: ● = short circuit current rating.

For 240 V range, use ● = D for 25 kA, G for 65 kA, J for 100 kA, L for 100 kA, R for 100 kA.

For 480 V range, use ● = D for 18 kA, G for 35 kA, J for 65 kA, L for 100 kA, R for 100 kA.

For 600 V range, use ● = D for 14 kA, G for 18 kA, J for 25 kA, L for 50 kA, R for 100 kA.

(d) Use Class CC or J fast acting or time delay.

(e) For GV2P/3P use, 480 V and 600 V ratings are for Wye connected electrical distribution systems. GV2P●● self protected manual combination starter must be used with GV2GH7 insulating barrier to meet UL 508 Type E rating. GV3P●● self protected manual combination starter must be used with GV3G66 + GVAM11 insulating barrier and auxiliary contact to meet UL 508 Type E rating. The GVAM11 provides a visual indication if the GV3P has tripped.

(f) GV2P products detailed below can be used in place of the GV3P products for obtaining SCCR ratings limited to 10 kA.

GV2P16 for GV3P13, GV2P20 for GV3P18, GV2P22 for GV3P25.

(g) Bussmann number: LPJ500SP, do not substitute.

(h) Bussmann number: LPJ600SP, do not substitute.

(i) UL61800-5-1 Par. 6.3.7DV.2.1.1 requires publishing the standard Type E combination motor controller power rating since this is a basic identification marking of type E devices. However, when applied as an input overcurrent protective device for a drive, the rated current of the Type E combination motor controller, not the rated power, is the key parameter for dimensioning

(reference UL61800-5-1Par. 5.2.3.6.2DV.4.1.11 & 5.2.3.6.2DV.4.1.12).

Schneider Electric GV●P Type E combination motor controllers are adjustable, their current range is shown on the adjustment dial and their selection is based on the input current and not the power rating of the drive.

(j) Order VW3A9704.

(k) Order VW3A9212.

(l) Order VW3A9213 (without braking unit) or VW3A9214 (with braking unit).

(m) Order VW3A9705.

(n) Order VW3A9706.

(o) Reactor from Altivar Process catalog or MTE series: RLW, do not substitute.

Note:

- Integral solid state short circuit protection in the drive does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the National Electrical Code and any local codes.
- The Altivar Process drive has a 100 kA interrupt rating on the output of the drive. In addition to providing a rating based on shorting the output of the drive, these short circuit current ratings have been obtained by shorting components internal to the Altivar Process. These ratings allow proper coordination of short circuit protection.

Преобразователь частоты серии Altivar

Основные параметры и характеристики указаны на маркировке изделия.

Наименование страны, где изготовлено изделие, указано на упаковке.

Преобразователь частоты предназначен для управления асинхронными и синхронными электродвигателями с постоянными магнитами (может отличаться для разных типов преобразователей частоты).

Безопасность применения оборудования обеспечивается его эксплуатацией в установленных изготовителем условиях квалифицированным персоналом.

Правила и условия монтажа, хранения, перевозки (транспортирования), реализации и утилизации согласно инструкции по эксплуатации, размещенной на сайте изготовителя.

Отключите силовое питание от преобразователя частоты в случае возникновения не сбрасываемой неисправности и дождитесь погасания экрана графического терминала.

Найдите причину неисправности и устраните ее.

Подключите питание: это приведет к сбросу блокировки преобразователя частоты по ошибке, если причина возникновения устранена.

В некоторых случаях может произойти автоматический повторный запуск в работу после исчезновения неисправности и сброса ошибки, если эта функция была запрограммирована.

Уполномоченный поставщик в РФ:

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Дата изготовления указана на упаковке (под текстом "Made in"): PPYYWW, где PP – код завода, YY – год изготовления, WW – номер недели изготовления.

Altivar сериясының жиілік түрлендіргіші

Негізгі параметрлер мен сипаттамалар өнімнің жапсырмасында көрсетілген.

Өнім шығарылған мемлекеттің атауы қаптамада көрсетілген.

Жиілік түрлендіргіші тұрақты магниттері бар асинхронды және синхронды электр қозғалтқыштарын басқаруға арналған (жиілік түрлендіргіштерінің әр түрлі типтері үшін әр түрлі болуы мүмкін).

Жабдықты пайдалану қауіпсіздігі оның өндіруші белгілеген жағдайларда білікті маманның жұмыс жасауымен қамтамасыз етіледі.

Өндірушінің веб-сайтында пайдалану жөніндегі нұсқаулыққа сәйкес орнату, сақтау, тасымалдау, сату және жою ережелері мен шарттары көрсетілген.

Қалпына келтіруге болмайтын ақаулық туындаған жағдайда электр желісін реттелетін жиіліктік жетектен ажыратыңыз және графикалық дисплей терминалы сөнгенше күтіңіз.

Мәселенің себебін тауып, оны түзетіңіз.

Қуатты қосыңыз: егер бұл себеп жойылған болса, жиілік түрлендіргішінің құлыпталуын қайта қалпына келтіреді.

Кейбір жағдайларда ақаулық жойылып, құлыпталуы қайта қалпына келтірілгеннен кейін, автоматты түрде қайта іске қосылуы мүмкін, егер бұл функция бағдарламаланған болса.

Қазақстан Республикасында ресми жеткізуші:

ЖШС «Шнейдер Электрик»

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Дайындалу күні қаптамада көрсетілген (мәтіннің астында көрсетілген "Made in"): PPYYWW, мұндағы PP - зауыт коды, YY - дайындалу жылы, WW - дайындалу аптасы.

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China RoHS Hazardous Substances Table



The data shown in this spreadsheet are related to the following version of the China RoHS 2.0:

"Administrative Measures for the Restriction of Hazardous Substances in Electric Appliances and Electronic Products" released January 21st 2016.

部件名称 Part Name	有害物质 - Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 Metal Parts	X	O	O	O	O	O
塑料部件 Plastic Parts	O	O	O	O	O	O
电子件 Electronic	X	O	O	O	O	O
触点 Contacts	O	O	O	O	O	O
线缆和线缆附件 Cables and cabling accessories	O	O	O	O	O	O

本表格依据SJ/T11364的规定编制。

O: 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。

This table is made according to SJ/T 11364.

O: indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is **below** the limit as stipulated in GB/T 26572.

X: indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is **above** the limit as stipulated in GB/T 26572